WEEKLY BULLETINS OF MASS. STATE BOARD OF HEALTH

1890

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Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Jan. 4, 1890.

PUBLISHED BY ORDER OF THE

Mass.: STATE BOARD OF HEALTH.

Weekly Bulletin

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STATE HOUSE BOSTON

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING JANUARY 4, 1890.

Mass. Dept. of Health. Lib.

Deaths reported to the State Board of Health in 18 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Typhoid Fever.	Whooping Cough.	Diphtheria and Croup.
Boston,	418,110	348	72	31	121	2	3	23
Worcester,	81,622	19	8	1	4	1	..	..
Lowell,	73,370	34	11	7	7	2	..	2
Cambridge,	67,026	38	15	5	4	..	..	4
Fall River,	64,092	19	3	2	3	1	..	1
Lynn,	55,200	22	..	2	7	..	1	1
Springfield,	41,510	26	7	10	6	1	..	8
Lawrence,	41,058	22	12	6	5	2	..	4
New Bedford,	38,218	..	..	..	..	..	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,711	..	..	..	..	..	..	..
Salem,	29,242	16	5	1	2	..	..	1
Chelsea,	28,781	14	3	..	1	..	..	..
Haverhill,	27,124	..	..	..	..	..	..	..
Taunton,	25,544	..	..	..	..	..	..	..
Gloucester,	24,904	6	2	..	..	..	..	..
Newton,	22,011	..	..	..	..	..	..	..
Malden,	20,615	8	1	..	2	..	..	..
Waltham,	17,998	9	1	..	2	..	..	..
Fitchburg,	17,364	1	1	..	..	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	7	1	..	2	..	..	..
Quincy,	14,114	6	1	..	..	..	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	7	2	..	1	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	1	0	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Typhoid Fever.	Whooping Cough.	Diphtheria and Croup.
Total of reporting towns,	1,035,056	603	145	65	167	9	4	44

S796
1890

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 18 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Sixty-five deaths were reported from the principal infectious diseases: diphtheria and croup, 44; typhoid fever, 9; whooping cough, 4; scarlet fever, 3; cerebro-spinal meningitis, 2; diarrhœal diseases, 2; malarial fever, 1.

No deaths were reported from small-pox.

There were 167 deaths from acute lung diseases; consumption, 130; and still-births, 26.

From scarlet fever: Boston, Lowell and Cambridge, 1 each. From cerebro-spinal meningitis: Lowell, 2. From diarrhœal diseases: Boston, 2. From malarial fever, Springfield, 1.

Deaths from the principal infectious diseases numbered 65 against 60 for the preceding week.

Deaths under five years of age numbered 145, the same as for the preceding week.

The deaths from acute lung diseases were about double those of the previous week, and there was a large increase in the mortality from consumption. No noteworthy changes in the other diseases.

Cases reported in Boston: diphtheria, 60; scarlet fever, 12; typhoid fever, 11; and measles, 2.

The death-rates for the week were: Boston, 43.28; Worcester, 12.10; Lowell, 24.09; Cambridge, 29.45; Fall River, 15.41; Lynn, 20.72; Springfield, 32.55; Lawrence, 27.85; New Bedford, ——; Holyoke, ——; Somerville, ——; Salem, 28.45; Brockton, ——; Chelsea, 25.28; Haverhill, ——; Taunton, ——; Gloucester, 12.52; Newton, ——; Malden, 20.16; Fitchburg, 3.06; Waltham, 26.00; Newburyport, 26.15; Northampton, ——; Quincy, 22.08.

The total death-rate for the week was 30.29 against 23.74 and 20.11 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Jan. 4, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Dec. 1889.															
Sunday, 29,	30.165	41.0	56.0	26.0	78	89	83.5	N. W.	S.	4	18	C.	O.		T.
Monday, 30,	29.740	39.0	46.0	32.0	58	37	47.5	W.	N.	29	15	O.	O.		.04
Tuesday, 31,	30.865	23.5	29.0	18.0	56	72	64.0	N. W.	N. E.	16	4	C.	C.		.0
Jan. 1890.															
Wednes'y, 1,	30.740	36.0	46.0	26.0	68	85	76.5	S. W.	S.	7	15	O.	O.		.0
Thursday, 2,	30.265	55.5	66.0	45.0	76	71	73.5	S. E.	S. W.	15	21	O.	O.		.0
Friday, 3,	30.510	38.5	44.0	33.0	59	66	62.5	W.	N. W.	12	9	F.	O.		.0
Saturday, 4,	30.545	30.0	37.0	23.0	52	51	51.5	W.	S.	12	3	C.	F.		.0
Week, - -															

* O., Cloudy; C., Cloudless; F., Partly Cloudy; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In the 21 smaller towns of Massachusetts as reported to the State Board of Health for the month of December.

The total death-rate of reporting towns for the month was 17.29.

TOWNS.	Estimated Population.	Reported Deaths in each.	Deaths under five years of age.	Deaths from				
				Infectious Diseases.	Acute Lung Diseases	Consumption.	Diphtheria and Croup.	Typhoid Fever.
Hyde Park,	9,468	..	..	..	..	..	..	..
Plymouth,	7,633	..	..	..	..	..	..	..
Wakefield,	6,382	9	1	..	1	1	..	..
Andover,	5,985	..	..	..	..	..	..	..
Stoneham,	5,957	6	0	2	..	1	2	..
Middleborough,	5,737	5	0	..	1	..	..	..
Winchester,	5,098	6	2	1	1	1	..	1
Arlington,	5,039	..	..	..	..	..	..	..
West Springfield,	4,784	8	2	..	1	..	..	..
Revere,	4,675	..	..	..	..	..	..	..
Provincetown,	4,580	..	..	..	..	..	..	..
Hingham,	4,375	9	2	..	..	1	..	..
Amherst,	4,310	..	..	..	..	..	..	..
Concord,	4,310	8	4	..	1	..	..	..
Whitman,	4,264	..	..	..	..	..	..	..
Braintree,	4,188	..	..	..	..	..	..	..
Hudson,	4,185	9	4	2	1	..	2	..
Randolph,	3,807	2	0	..	..	1	..	..
Northbridge,	3,786	..	..	..	..	..	..	..
No. Andover,	3,585	..	..	..	..	..	..	..
Mansfield,	3,064	..	..	..	..	..	..	..
Leicester,	2,987	..	..	..	..	..	..	..
Fairhaven,	2,915	..	..	..	..	..	..	..
Nantucket,	2.912	..	..	..	..	..	..	..
Wrentham,	2,852	2	0	..	..	1	..	..
Swampscott,	2,630	5	0	..	..	2	..	..
Merrimac,	2,461	1	0	..	..	..	..	..
Chelmsford,	2,304	..	..	..	..	..	..	..
Dalton,	2,240	2	0	..	1	..	..	..
Cohasset,	2,230	..	..	..	..	..	..	..
Northborough,	2,095	..	..	..	..	..	..	..
Ashburnham,	2,058	..	..	..	..	..	..	..
Groton,	2,037	1	0	..	..	..	..	..
Longmeadow,	1,787	2	0	..	..	..	..	..
Conway,	1,573	..	..	..	..	..	..	..
Norton,	1,443	4	0	..	..	1	..	..
Shrewsbury,	1,400	1	1	..	..	..	..	..
Topsfield,	1,141	4	0	..	..	..	..	..
Truro,	972	1	0	..	..	..	..	..
Burlington,	604	1	0	..	..	1	..	..
Heath,	575	1	0	..	..	..	..	..
Total of reporting towns,	60,402	87	16	5	7	10	4	1

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Jan. 11, 1890,

AND

MONTHLY BULLETIN

OF

FOOD AND DRUG INSPECTION

For the Month of December.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING JANUARY 11, 1890.

Deaths reported to the State Board of Health in 19 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	416	87	29	153	4	4	20
Worcester,	81,622	25	9	..	7	..	..	..
Lowell,	73,370	48	13	3	11	..	2	1
Cambridge,	67,026	40	7	..	20	..	..	3
Fall River,	64,092	38	21	5	5	..	1	..
Lynn,	55,200	30	5	..	8	3	..	..
Springfield,	41,510	16	3	3	4	..	..	2
Lawrence,	41,058	32	1	6	10	1	1	1
New Bedford,	38,218	20	7	1	7	1	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,711	..	..	..	..	..	..	..
Salem,	29,242	26	5	1	6	..	..	1
Chelsea,	28,781	11	1	..	3	..	..	..
Haverhill,	27,124	6	1	..	1	..	..	..
Taunton,	25,544	..	..	..	..	..	..	..
Gloucester,	24,904	8	3	..	4	..	..	..
Newton,	22,011	19	2	..	6	..	..	..
Malden,	20,615	13	4	..	2	..	..	..
Waltham,	17,998	13	4	..	5	..	..	..
Fitchburg,	17,364	..	..	..	..	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	..	..	..	..	..	..	..
Quincy,	14,114	6	3	2	..	..	..	2
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	6	1	..	3	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	3	0	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,089,307	776	177	50	255	9	8	30

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 19 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty deaths were reported from the principal infectious diseases: diphtheria and croup, 30; diarrhœal diseases, 9; typhoid fever, 8; whooping cough, 2; scarlet fever, 2; measles 1; cerebro-spinal meningitis, 1.

No deaths were reported from small-pox and malarial fever.

There were 255 deaths from acute lung diseases; consumption, 117; and still-births, 21.

From whooping cough: Fall River and Lawrence, 1 each. From scarlet fever: Boston and Springfield, 1 each. From cerebro-spinal meningitis: Lawrence, 1. From measles: Cambridge, 1.

Deaths from the principal infectious diseases numbered 50 against 65 for the preceding week.

Deaths under five years of age numbered 177 against 145 for the preceding week.

Deaths referred to acute lung diseases which had been 46, 86 and 167 in the three preceding weeks rose again last week to 255. There was a slight decrease in the mortality from consumption.

Cases reported in Boston: diphtheria, 37; scarlet fever, 15; typhoid fever, 7; and measles, 3.

The death-rates for the week were: Boston, 51.75; Worcester, 15.92; Lowell, 33.98; Cambridge, 31.00; Fall River, 30.82; Lynn, 29.26; Springfield, 20.03; Lawrence, 40.32; New Bedford, 27.20; Holyoke, ——; Somerville, —— ; Brockton, ——; Salem, 19.56; Chelsea, 10.84; Haverhill, ——; Taunton, ——; Gloucester, 16.70; Newton, 44.88; Malden, 32.76; Waltham, 37.44; Fitchburg, ——; Quincy, 22.18; Northampton, ——; Newburyport, 22.38; Woburn ——.

The total death-rate for the week was 36.95 against 30.29 and 23.74 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Jan. 11, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 5,	30.10	34.5	47.0	22.0	96	96	96.0	S.	N. E.	4	7	R.	O.	5.10	.12
Monday, 6,	29.74	46.5	60.0	33.0	91	78	84.0	N. W.	W.	3	15	G.	O.	1.00	.01
Tuesday, 7,	29.99	39.5	43.0	36.0	69	70	70.0	W.	N.	12	8	O.	C.		.0
Wednes'y, 8,	29.62	34.0	41.0	27.0	68	78	73.0	W.	S. W.	3	18	C.	C.		.0
Thursday, 9,	29.89	19.0	24.0	14.0	83	60	72.0	N. W.	W.	27	15	C.	C.		.0
Friday, 10,	30.10	12.0	16.0	8.0	83	88	86.0	N.	N. W.	13	17	N.	N.	15.00	.18
Saturday, 11,	30.28	19.0	30.0	8.0	85	100	92.0	N. W	S. E.	11	1	N.	R.	24.00	.26
Week, - -															

* O., Cloudy; C., Cloudless; F., Partly Cloudy; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of December: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk,	128	87	215	Molasses,	13	9	22
Butter,	11	3	14	Honey,	1	1	2
Cheese,	2	..	2	Vinegar,	2	2	4
Lard,	6	..	6	Canned Goods,	..	..	..
Olive Oil,	..	..	..	Tea,	1	..	1
Spices,	19	6	25	Coffee,	..	..	..
Cream of Tartar,	10	1	11	Confectionery,	2	..	2
Syrups,	..	..	..	Other articles of Food and Drinks,	3	1	4
Maple Syrup,	..	2	2	Drugs,	12	3	15
Maple Sugar,	..	..	..	Totals,	210	115	325

Percentage of adulteration, 35.4. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration. The percentage of adulteration of articles of food, not including milk, was only 25.4. The percentage of samples of milk below the standard of 13 per cent. of solids was 40.8, but 33 per cent. of the entire number were found to have between 12 and 13 per cent. of solids, so that the actual number below 12 per cent. was very small.

Ten complaints were entered in the courts during the month for violation of the statutes relative to Food Inspection. Five were for illegal sale of milk, three of butter, one of molasses, and one of honey.

In all of these cases the defendants were convicted, and in three cases they appealed.

The samples of drugs examined were Tinctures of Nux Vomica and Opium, Salts of Quinine, Citrate of Quinine and Iron, Spices, Distilled Spirits, Spirits of Nitrous Ether, Powdered Rhubarb, Syrup, Alcohol, Essential Oils, and pharmacopœial acids.

The adulterated samples were Tincture of Nux Vomica, Whiskey, and Spirits of Nitrous Ether.

The adulterated samples of butter were oleomargarine, and those of molasses were mixtures of glucose.

The cities and towns from which samples of food were collected during the month were as follows: — Boston, Worcester, Springfield, Cambridge, Fall River, Holyoke, Lowell, Lynn, Lawrence, Brockton, Chelsea, Haverhill, Woburn, Westborough, Southborough, Hyde Park, Brookline, Beverly, Lexington, Stow, Sudbury, Amesbury, Dedham, Dover, Needham, Rockland, Shelburne Falls, Bolton, Berlin, Clinton, Harvard, Natick, and South Framingham.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Jan. 18, 1890,

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING JANUARY 18, 1890.

Deaths reported to the State Board of Health in 23 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

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				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Whooping Cough.	Diphtheria and Croup.
Boston,	418,110	345	60	25	138	3	..	19
Worcester,	81,622	41	8	5	17	2	..	1
Lowell,	73,370	67	17	3	25	..	..	..
Cambridge,	67,026	36	6	3	9	1	..	2
Fall River,	64,092	44	18	6	12	..	6	..
Lynn,	55,200	29	2	..	12	..	..	..
Springfield,	41,510	37	8	2	11	..	..	1
Lawrence,	41,058	32	11	6	10	2	1	2
New Bedford,	38,218	24	7	1	5	..	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,711	4	1	..	2	..	..	..
Salem,	29,242	20	6	3	..	..	1	2
Chelsea,	28,781	19	6	1	8	1	..	..
Haverhill,	27,124	17	1	..	3	..	..	..
Taunton,	25,544	13	3	2	5	..	..	1
Gloucester,	24,904	10	1	1	2	..	..	..
Newton,	22,011	10	0	1	5	..	..	1
Malden,	20,615	13	4	1	4	..	..	..
Waltham,	17,998	3	1	..	..	..	..	..
Fitchburg,	17,364	16	3	..	3	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	4	0	2	..	..	1	..
Quincy,	14,114	9	3	2	2	..	..	2
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	13	3	3	4	..	..	2
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	5	1	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Whooping Cough.	Diphtheria and Croup.
Total of reporting towns,	1,178,628	811	170	67	277	9	9	33

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 23 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Sixty-seven deaths were reported from the principal infectious diseases: diphtheria and croup, 33; whooping cough, 9; diarrhœal diseases, 9; scarlet fever, 5; typhoid fever, 5; cerebro-spinal meningitis, 4; erysipelas, 1.

No deaths were reported from small-pox and malarial fevers.

There were 277 deaths from acute lung diseases; consumption, 115; and still-births, 24.

From scarlet fever: Boston, Lowell, Springfield, Malden and Pittsfield, 1 each. From typhoid fever: Lowell, 2; Boston, Lawrence and Gloucester, 1 each. From cerebro-spinal meningitis: Worcester, 2: New Bedford and Newburyport, 1 each. From erysipelas: Boston, 1. From measles: Taunton, 1.

Deaths from influenza: Springfield, 4; Gloucester, 2; Lawrence, New Bedford, Taunton, Malden, Waltham and Fitchburg, each 1.

Deaths from the principal infectious diseases numbered 67 against 50 for the preceding week.

Deaths under five years of age numbered 170 against 177 for the preceding week.

Deaths referred to acute lung diseases which had been 86, 167 and 255 in the three preceding weeks rose again last week to 277. No noteworthy changes in the other diseases.

Cases reported in Boston: diphtheria, 65; scarlet fever, 8; typhoid fever, 6; and measles, 4.

The death-rates for the week were: Boston, 42.92; Worcester, 18.12; Lowell, 46.74; Cambridge, 27.90; Fall River, 35.68; Lynn, 17.89; Springfield, 48.32; Lawrence, 40.31; New Bedford, 32.64; Holyoke, ——; Somerville, —— ; Brockton, 6.79; Salem, 35.56; Chelsea, 34.31; Haverhill, 32.58; Taunton, 26.46; Gloucester, 20.88; Newton, 23.62; Malden, 32.76; Waltham, 8.64; Fitchburg, 48.96; Quincy, 34.12; Northampton, ——; Newburyport, 48.49; Woburn, ——.

The total death-rate for the week was 35.78 against 36.95 and 30.29 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Jan. 18, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 12,	30.16	41.0	58.0	24.0	83	92	88.0	W.	E.	10	22	F.	O.	4.30	.04
Monday, 13,	29.84	48.0	61.0	36.0	92	52	72.0	S. E.	W.	3	26	G.	C.	1.00	.02
Tuesday, 14,	30.62	32.0	38.0	26.0	45	47	46.0	W.	N. E.	8	8	C.	C.		.0
Wednes'y, 15,	30.24	32.0	39.0	24.0	74	92	83.0	S. E.	S.W.	4	6	O.	O.	6.00	.32
Thursday, 16,	29.73	45.0	57.0	33.0	94	57	76.0	S.	W.	16	24	R.	C.	8.15	.38
Friday, 17,	30.51	20.0	26.0	13.0	52	61	56.0	N. W.	W.	12	6	O.	C.		.0
Saturday, 18,	30.45	32.0	42.0	22.0	78	68	73.0	S.	N. E.	8	4	F.	C.		.0
Week, - -															

* O., Cloudy; C., Cloudless; F., Partly Cloudy; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Jan. 25, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING JANUARY 25, 1890.

Deaths reported to the State Board of Health in 19 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	214	43	23	56	2	2	18
Worcester,	81,622	24	3	1	6	..	..	1
Lowell,	73,370	65	20	2	17	1	..	1
Cambridge,	67,026	22	5	2	5	..	..	2
Fall River,	64,092	51	18	6	17	4	..	2
Lynn,	55,200	22	..	1	4	..	..	1
Springfield,	41,510	31	3	1	10	..	1	..
Lawrence,	41,058	46	18	8	10	1	1	6
New Bedford,	38,218	20	6	1	4	1	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,711	..	..	..	..	..	..	..
Salem,	29,242	..	..	..	..	..	..	..
Chelsea,	28,781	11	2	..	6	..	..	..
Haverhill,	27,124	..	..	..	..	..	..	..
Taunton,	25,544	..	..	..	..	..	..	..
Gloucester,	24,904	9	1	1	1	..	..	..
Newton,	22,011	18	3	..	1	..	..	..
Malden,	20,615	11	6	..	3	..	..	..
Waltham,	17,998	5	1	..	2	..	..	..
Fitchburg,	17,304	9	4	1	..	..	..	1
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	5	4	1	4	..	..	..
Quincy,	14,114	5	0	..	..	..	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	8	3	1	2	..	..	1
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	4	0	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,066,007	580	140	49	151	9	4	33

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 19 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-nine deaths were reported from the principal infectious diseases: diphtheria and croup, 33; diarrhœal diseases, 9; typhoid fever, 4; searlet fever, cerebro-spinal meningitis and erysipelas, 1 each.

No deaths were reported from small-pox and malarial fever.

There were 151 deaths from aeute lung diseases; consumption, 49; and still-births. 34.

From searlet fever: Pittsfield, 1. From cerebro-spinal meningitis: Gloueester, 1; From erysipelas: Boston, 1.

Lowell reports 6 deaths from influenza.

Deaths from the prineipal infectious diseases numbered 49 against 67 for the preceding week.

Deaths under five years of age numbered 140 against 170 for the preceding week.

Deaths referred to aeute lung diseases whieh had been 167, 255 and 277 in the three preceding weeks declined last week to 151. There was a large deerease in the mortality from consumption.

Cases reported in Boston: diphtheria, 44; scarlet fever, 29; typhoid fever, 8; and measles, 4.

The death-rates for the week were: Boston, 26.62; Worcester, 15.29; Lowell, 46.02; Cambridge, 17.05; Fall River, 41.36; Lynn, 20.72; Springfield, 38.81; Lawrence, 58.24; New Bedford, 27.20; Holyoke, ——; Somerville, —— ; Brockton, ——; Salem, —— ; Chelsea, 19.87; Haverhill, —— ; Taunton, —— ; Gloucester, 18.79; Newton, 42.52; Malden, 27.72; Waltham, 14.40; Fitchburg, 27.54; Quincy, 18.40; Northampton, ——; Newburyport, 29.84; Woburn, ——.

The total death-rate for the week was 28.29 against 35.78 and 36.95 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Jan. 25, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 19,	30.32	32.0	40.0	24.0	76	83	80.0	N.	E.	2	4	C.	O.		.0
Monday, 20,	29.73	48.0	58.0	38.0	93	71	82.0	S.	W.	12	30	R.	C.	5.00	.02
Tuesday, 21,	29.92	38.0	42.0	33.0	73	71	72.0	S.W.	W.	9	10	O.	C.		.0
Wednes'y, 22,	30.25	20.0	24.0	16.0	72	49	60.0	N. W.	N. W.	24	14	C.	C.	2.00	T.
Thursday, 23,	30.24	17.0	24.0	10.0	46	93	70.0	N. W.	S. E.	10	5	F.	N.	4.35	.05
Friday, 24,	30.15	23.0	27.0	19.0	87	56	72.0	W.	N. W.	10	10	C.	C.	0.10	T.
Saturday, 25,	30.06	28.0	42.0	14.0	69	60	64.0	S. W.	S. W	4	22	C.	O.		.0
Week, - -															

* O., Cloudy; C., Cloudless; F., Partly Cloudy; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Feb. 1, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING FEBUARY 1, 1890.

Deaths reported to the State Board of Health in 22 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	192	43	23	34	5	..	12
Worcester,	81,622	34	11	3	6	..	1	2
Lowell,	73,370	51	15	2	8	..	..	1
Cambridge,	67,026	22	5	1	5	..	..	1
Fall River,	64,092	26	5	3	6	..	2	..
Lynn,	55,200	13	..	..	4	..	..	..
Springfield,	41,510	25	6	1	6	..	..	1
Lawrence,	41,058	33	13	6	7	2	1	3
New Bedford,	38,218	21	7	..	4	..	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,711	8	1	..	3	..	..	..
Salem,	29,242	15	6	1	3	..	..	1
Chelsea,	28,781	11	2	2	2	..	..	1
Haverhill,	27,124	14	3	3	1	..	..	2
Taunton,	25,544	..	..	..	..	..	..	..
Gloucester,	24,904	4	0	..	2	..	..	..
Newton,	22,011	4	2	1	2	..	..	1
Malden,	20,615	10	1	..	1	..	..	..
Waltham,	17,998	5	0	1	1	..	1	..
Fitchburg,	17,364	10	..	..	1	..	..	..
Attleborough,	15,994	..	..	..	2	..	..	..
Pittsfield,	15,762	6	0	1	..	..	..	..
Quincy,	14,114	7	1	1	3	..	..	1
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	9	1	1	1	..	..	1
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	1	0	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,218,476	521	122	50	102	7	5	27

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 22 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty deaths were reported from the principal infectious diseases: diphtheria and croup, 27; diarrhœal diseases, 7; typhoid fever, 5; scarlet fever, whooping cough and erysipelas, 3 each; cerebro-spinal meningitis, 2.

No deaths were reported from small-pox and malarial fevers.

There were 102 deaths from acute lung diseases; consumption, 79; and still-births, 14.

From scarlet fever: Boston and Haverhill, 1 each. From whooping cough: Boston, Fall River and Pittsfield, 1 each. From erysipelas: Boston, 3.

Deaths from influenza: Lowell, 4; Boston and Quincy, 1 each.

Deaths from the principal infectious diseases numbered 50 against 49 for the preceding week.

Deaths under five years of age numbered 122 against 140 for the preceding week.

Cases reported in Boston: scarlet fever, 38; diphtheria, 29; typhoid fever, 1.

The death-rates for the week were: Boston, 23.88; Worcester, 21.66; Lowell, 36.11; Cambridge, 17.05; Fall River, 21.08; Lynn, 13.19; Springfield, 31.30; Lawrence, 41.78; New Bedford, 27.56; Holyoke, ——; Somerville, ——; Brockton, 13.54; Salem, 26.67; Chelsea, 19.89; Haverhill, 26.84; Taunton, ——; Gloucester, 8.35; Newton, 8.45; Malden, 25.20; Waltham, 14.40; Fitchburg, 30.60; Quincy, 25.76; Northampton, ——; Newburyport, 15.51; Woburn, ——.

The total death-rate for the week was 22.23 against 28.29 and 35.78 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Feb. 1, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, Jan. 26,	29.70	42.0	49.0	36.0	66	46	S.W.	N.E.	10	4	O.	F.		0.00
Monday, 27,	29.80	31.0	36.0	26.0	95	90	N.E.	N.W.	12	5	R.	C.	12.00	0.49
Tuesday, 28,	30.16	18.0	24.0	11.0	64	54	N. W.	W.	24	10	C.	O.	0.00	0.00
Wednes'y, 29,	30.09	34.0	51.0	17.0	66	43	S. W.	W.	18	12	F.	O.	0.00	0.00
Thursday, 30,	30.17	32.0	40.0	24.0	92	87	O.	S.	0	15	R.	O.	6.00	0.20
Friday, 31,	30.14	30.0	38.0	22.0	89	91	N.	N.	4	10	O.	O.	3.00	0.01
Saturday, Feb. 1,	30.43	37.0	44.0	30.0	77	47	W.	N. W.	9	18	F.	O.	0.00	0.00
Week, - -														

* O., Cloudy; C., Cloudless; F., Partly Cloudy; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In the 22 smaller towns of Massachusetts as reported to the State Board of Health for the month of January.

The total death-rate of reporting towns for the month was 20.74.

TOWNS.	Estimated Population.	Reported Deaths in each.	Deaths under five years of age.	Deaths from				
				Infectious Diseases.	Acute Lung Diseases.	Consumption.	Scarlet Fever.	Diphtheria and Croup.
Hyde Park,	9,468	..	..	..	..	..	..	..
Plymouth,	7,633	..	..	..	..	..	..	..
Wakefield,	6,382	14	5	..	2	2	..	..
Andover,	5,985	14	0	..	3	3	..	..
Stoneham,	5,957	5	0	..	..	1	..	..
Middleborough,	5,737	5	0	..	1	1	..	..
Winchester,	5,098	8	4	..	1	1	..	..
Arlington,	5,039	..	..	..	..	..	..	..
West Springfield,	4,784	8	0	1	1	1	..	1
Revere,	4,675	..	..	..	..	..	..	..
Provincetown,	4,580	..	..	..	..	..	..	..
Hingham,	4,375	10	1	..	1	2	..	..
Amherst,	4,310	..	..	..	..	..	..	..
Concord,	4,310	5	1	..	3	..	..	..
Whitman,	4,264	..	..	..	..	..	..	..
Braintree,	4,188	..	..	..	..	..	..	..
Hudson,	4,185	15	2	2	1	3	..	2
Randolph,	3,807	10	0	0	..	2	..	1
Northbridge,	3,786	..	..	..	..	..	..	..
No. Andover,	3,585	..	..	..	..	..	..	..
Mansfield,	3,064	..	..	..	..	..	..	..
Leicester,	2,987	2	0	..	..	..	..	..
Fairhaven,	2,915	..	..	..	..	..	..	..
Nantucket,	2,912	..	..	..	..	..	..	..
Wrentham,	2,852	3	0	1	..	..	1	..
Swampscott,	2,630	3	0	..	..	..	..	..
Merrimac,	2,461	5	1	..	1	1	..	..
Chelmsford,	2,304	..	..	..	..	..	..	..
Dalton,	2,240	1	0	..	1	..	..	..
Cohasset,	2,230	..	..	..	..	..	..	..
Northborough,	2,095	..	..	..	..	..	..	..
Ashburnham,	2,058	..	..	..	..	..	..	..
Groton,	2,037	3	0	..	1	..	..	..
Longmeadow,	1,787	..	..	..	..	..	..	..
Norton,	1,718	2	0	..	2	..	..	..
Conway,	1,573	..	..	..	..	..	..	..
Shrewsbury,	1,400	4	0	..	1	..	..	..
Topsfield,	1,141	1	0	..	1	..	..	..
Truro,	972	1	1	..	1	..	..	..
Burlington,	604	1	0	..	..	1	..	..
Heath,	575	1	0	..	1	..	..	..
Total of reporting towns,	69,997	121	15	5	23	18	1	4

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Feb. 8, 1890.

AND

MONTHLY BULLETIN

OF

FOOD AND DRUG INSPECTION

For the Month of January.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

2-8-90

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING FEBRUARY 8, 1890.

Deaths reported to the State Board of Health in 15 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	169	39	13	25	1	..	10
Worcester,	81,622	..	..	..	..	..	..	..
Lowell,	73,370	29	9	4	2	1	3	..
Cambridge,	67,026	30	2	3	4	..	..	3
Fall River,	64,092	37	11	4	6	1	1	1
Lynn,	55,200	25	8	..	3	..	..	..
Springfield,	41,510	18	4	..	7	..	..	..
Lawrence,	41,058	..	..	..	..	..	..	..
New Bedford,	38,218	16	6	..	5	..	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,711	..	..	..	..	..	..	..
Salem,	29,242	..	..	..	..	..	..	..
Chelsea,	28,781	..	..	..	..	..	..	..
Haverhill,	27,124	9	2	..	1	..	..	..
Taunton,	25,544	..	..	..	..	..	..	..
Gloucester,	24,904	5	1	..	1	..	..	..
Newton,	22,011	6	2	1	..	..	..	1
Malden,	20,615	6	1	..	3	..	..	..
Waltham,	17,998	3	1	..	..	..	..	..
Fitchburg,	17,304	..	..	..	..	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	4	0	1	..	..	1	..
Quincy,	14,114	7	1	1	..	..	..	1
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	..	..	..	..	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	3	0	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	910,451	367	87	27	57	3	5	16

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 15 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Twenty-seven deaths were reported from the principal infectious diseases: diphtheria and croup, 16; typhoid fever, 5; diarrhœal diseases, 3; whooping cough, 2; scarlet fever, 1.

No deaths were reported from small-pox and malarial fever.

There were 57 deaths from acute lung diseases; consumption, 63; and still-births, 22.

From scarlet fever: Boston, 1. From whooping cough: Boston and Fall River, 1 each. From influenza: Lowell, 3.

Deaths from the principal infectious diseases numbered 27 against 50 for the preceding week.

Deaths under five years of age numbered 87 against 122 for the preceding week.

Cases reported in Boston: diphtheria, 51; scarlet fever, 20; typhoid fever, 11; and measles, 6.

The death-rates for the week were: Boston, 21.02; Worcester, ——; Lowell, 20.53; Cambridge, 23.25; Fall River, 30.00; Lynn, 23.55; Springfield, 22.54; Lawrence, ——; New Bedford, 21.76; Holyoke, ——; Somerville, ——; Brockton, ——; Salem, ——; Chelsea, ——; Haverhill, 17.25; Taunton, ——; Gloucester, 11.81; Newton, 14.17; Malden, 15.12; Waltham, 8.64; Fitchburg, ——; Quincy, 25.76; Northampton, ——; Newburyport, ——; Woburn, ——.

The total death-rate for the week was 20.95 against 22.23 and 28.29 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Feb. 8, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 2,	30.56	29.0	36.0	22.0	69	95	82.0	E.	E.	10	14	O.	R.	6.00	0.08
Monday, 3,	30.00	40.0	49.0	32.0	96	79	88.0	W.	S. W.	4	17	R.	O.	2.00	T.
Tuesday, 4,	30.06	36.0	40.0	33.0	53	91	72.0	N.	S.	11	10	F.	R.	3.10	0.05
Wednes'y, 5,	29.56	50.0	64.0	37.0	71	62	66.0	S. W.	W.	20	16	O.	F.	0.00	0.00
Thursday, 6,	30.29	23.0	28.0	18.0	73	48	60.0	N. W.	N. W.	14	19	O.	C.	0.00	0.00
Friday, 7,	30.63	19.0	28.0	10.0	64	78	71.0	N.	S. E.	12	15	C.	O.	2.00	T.
Saturday, 8,	29.78	44.0	63.0	26.0	96	91	92.0	S.	W.	18	18	R.	R.	14.00	0.47
Week, - -															

* O., Cloudy; C., Cloudless; F., Partly Cloudy; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of January: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk,	114	107	221	Molasses,	26	7	33
Butter,	6	3	9	Honey,	3	1	4
Cheese,	4	..	4	Vinegar,	4	2	6
Lard,	3	2	5	Canned Goods,	..	..	..
Olive Oil,	..	2	2	Tea,	12	..	12
Spices,	53	7	60	Coffee,	3	1	4
Cream of Tartar,	22	4	26	Confectionery,	3	..	3
Syrups,	..	..	..	Other articles of Food and Drink,	16	..	16
Maple Syrup,	..	2	2	Drugs,	19	2	21
Maple Sugar,	1	..	1	Totals.	289	140	429

Percentage of adulteration, 32.6. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration. The percentage of adulteration of other articles, not including milk, was only 15.8. The percentage of samples of milk below the standard of 13 per cent. of solids was 48.4, but 36 per cent. of the entire number were found to have between 12 and 13 per cent. of solids, so that the actual number below 12 per cent. was small.

The adulterated spices were two of black pepper, one of cloves, two of mustard and one of mace.

The articles of food not specified were nine samples of soda, six of sugar and one of apple jelly.

A considerable amount of work was also done during the month in the analysis of samples of compound lard of known composition, and also in the examination of the milk of several dairies with reference to the quality of such milk at the time of production.

Seven complaints were entered in the courts during the month for violation of the Food and Drug laws. Three were for illegal sales of butter, two of milk and two of black pepper.

In all of these cases the parties were convicted, and in four cases the defendants appealed.

The samples of drugs examined were Sulphate of Quinine, Tincture of Opium, Ether, Spirits of Nitrous Ether, Iodoform, Iodide of Potassium, Subnitrate of Bismuth, Tannic Acid, Ginger, Powdered Aloes and Extract of Licorice.

The cities and towns from which samples of food were collected during the month were as follows: — Boston, Springfield, Cambridge, Fall River, Holyoke, Lowell, Lynn, Taunton, Salem, Gloucester, Newton, Somerville, Chelsea, Clinton, Framingham, Concord, Marlborough, Sterling, Weston, Warren, Spencer, Greenfield, Pittsfield, Revere and Montague.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Feb. 15, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING FEBRUARY 15, 1890.

Deaths reported to the State Board of Health in 21 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diphtheria and Croup.	Typhoid Fever.	Whooping Cough.
Boston,	418,110	192	46	23	34	17	4	1
Worcester,	81,622	26	11	4	5	3	1	..
Lowell,	73,370	41	18	3	7	1	..	1
Cambridge,	67,026	20	8	2	2	1	..	..
Fall River,	64,092	37	18	3	12	1	..	2
Lynn,	55,200	17	..	1	1	..	1	..
Springfield,	41,510	12	4	2	3	2	..	..
Lawrence,	41,058	17	3	3	4	1	2	..
New Bedford,	38,218	21	6	3	..	3	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,711	..	..	..	..	..	..	..
Salem,	29,242	8	3	..	..	..	..	..
Chelsea,	28,781	9	2	1	1	1	..	..
Haverhill,	27,124	..	..	..	..	..	..	..
Taunton,	25,544	11	3	1	1	..	..	..
Gloucester,	24,904	4	1	..	1	..	..	..
Newton,	22,011	3	2	..	1	..	..	..
Malden,	20,615	3	0	..	..	..	..	..
Waltham,	17,998	4	0	1	..	..	1	..
Fitchburg,	17,364	4	1	1	..	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	6	0	6	..	3	2	..
Quincy,	14,114	11	4	3	..	3	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	8	3	..	3	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	1	0	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diphtheria and Croup.	Typhoid Fever.	Whooping Cough.
Total of reporting towns,	1,121,793	455	133	57	75	36	11	4

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 21 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty-seven deaths were reported from the principal infectious diseases: diphtheria and croup, 36; typhoid fever, 11; whooping cough, 4; diarrhœal diseases, 2; scarlet fever, cerebro-spinal-meningitis, erysipelas and remittent fever, each one.

No deaths were reported from small-pox.

There were 75 deaths from acute lung diseases; consumption, 50; and still-births, 21.

From diarrhœal diseases: Boston and Cambridge, 1 each. From cerebro-spinal-meningitis: Taunton, 1. From scarlet fever: Fitchburg, 1. From erysipelas: Lowell, 1. From remittent fever: Pittsfield, 1. Quincy, reports one death from hydrophobia.

Deaths from the principal infectious diseases numbered 57 against 27 for the preceding week.

Deaths under five years of age numbered 133 against 87 for the preceding week.

Cases reported in Boston: diphtheria, 41; scarlet fever, 28; typhoid fever, 8; and measles, 5.

The death-rates for the week were: Boston, 23.88; Worcester, 12.56; Lowell, 29.03; Cambridge, 15.50; Fall River, 30.01; Lynn, 13.31; Springfield, 15.02; Lawrence, 21.52; New Bedford, 28.56; Holyoke, ——; Somerville, ——; Brockton, ——; Salem, 14.22; Chelsea, 16.25; Haverhill, ——; Taunton, 22.38; Gloucester, 8.35; Newton, 7.09; Malden, 7.66; Waltham, 11.52; Fitchburg, 15.24; Quincy, 40.48; Northampton, ——; Newburyport, 29.84; Woburn, ——.

The total death-rate for the week was 21.09 against 20.95 and 22.23 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.			VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Feb. 15, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 9,	30.32	29.0	35.0	23.0	64	50	57.0	W.	N. W.		10	18		C.	C.		3.00	0.02
Monday, 10,	30.62	23.0	28.0	18.0	79	88	84.0	N.	N.		14	6		O.	N.		15.00	0.04
Tuesday, 11,	30.50	28.0	36.0	19.0	87	69	76.0	N. W.	S. E.		6	12		F.	C.		0.00	0.00
Wednes'y, 12,	30.04	38.0	49.0	30.0	76	57	66.0	S. W.	W.		18	13		O.	C.		0.00	0.00
Thursday, 13,	30.13	42.0	52.0	31.0	77	50	58.0	S. W.	S. W.		12	16		O.	C.		0.00	0.00
Friday, 14,	29.78	46.0	56.0	36.0	76	100	88.0	S. W.	S.		14	44		O.	R.		5.30	0.15
Saturday, 15,	29.65	42.0	61.0	33.0	68	53	60.0	W.	W.		24	25		O.	C.		3.15	0.03
Week, - -																		

* O., Cloudy; C., Cloudless; F., Partly Cloudy; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Feb. 22, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING FEBRUARY 22, 1890.

Deaths reported to the State Board of Health in 20 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Whooping Cough.	Diphtheria and Croup.
Boston,	418,110	201	66	23	41	2	3	15
Worcester,	81,622	24	10	1	6	..	..	1
Lowell,	73,370	26	17	7	2	3	..	3
Cambridge,	67,026	9	3	..	2	..	..	..
Fall River,	64,092	48	21	7	9	..	4	2
Lynn,	55,200	15	0	..	..	..	..	..
Springfield,	41,520	18	6	2	..	..	..	1
Lawrence,	41,058	33	14	5	5	..	1	2
New Bedford,	38,218	12	4	..	2	..	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	7	2	..	1	..	..	..
Chelsea,	28,781	16	2	4	2	1	..	3
Haverhill,	27,124	6	1	..	1	..	..	..
Taunton,	25,544	4	1	..	..	..	..	..
Gloucester,	24,904	..	..	..	..	..	..	..
Newton,	22,011	6	1	1	..	..	..	1
Malden,	20,615	6	2	1	2	..	..	1
Waltham,	17,998	3	0	..	..	..	..	..
Fitchburg,	17,364	10	1	2	..	..	..	1
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	3	0	1	2	..	..	1
Quincy,	14,114	..	..	..	..	..	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	5	1	..	1	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	5	0	..	1	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Whooping Cough.	Diphtheria and Croup.
Total of reporting towns,	1,108,909	457	152	54	77	6	8	31

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 20 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty-four deaths were reported from the principal infectious diseases: diphtheria and croup, 31; whooping cough, 8; diarrhœal diseases, 6; typhoid fever, 6; cerebro-spinal meningitis, 2; erysipelas, 1.

No deaths were reported from small-pox and malarial fever.

There were 77 deaths from acute lung diseases; consumption, 65; and still-births, 25.

From typhoid fever: Lawrence, 2; Boston, Lowell, Fall River and Springfield, 1 each. From cerebro-spinal-meningitis: Boston and Fitchburg, 1 each. From erysipelas: Boston, 1.

Deaths from the principal infectious diseases numbered 54 against 57 for the preceding week.

Deaths under five years of age numbered 152 against 133 for the preceding week.

Cases reported in Boston: diphtheria, 56; scarlet fever, 27; typhoid fever, 3; and measles, 3.

Lowell and Lawrence report 1 death each from influenza.

The death-rates for the week were: Boston, 25.10; Worcester, 15.29; Lowell, 18.43; Cambridge, 6.97; Fall River, 38.93; Lynn, 14.13; Springfield, 22.64; Lawrence, 41.78; New Bedford, 16.32; Holyoke, ——; Somerville, ——; Brockton, ——; Salem, 12.49; Chelsea, 28.45; Haverhill, 11.50; Taunton, 8.14; Gloucester, ——; Newton, 14.17; Malden, 15.13; Waltham, 8.66; Fitchburg, 30.05; Quincy, ——; Northampton, ——; Newburyport, 18.61; Woburn, ——.

The total death-rate for the week was 21.43 against 21.09 and 20.95 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.			VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Feb. 22, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.		MEAN.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 16,	30.42	28.0	39.0	16.0	71	25		00.0	N. W.	S. W.		18	16		C.	C.			0.00
Monday, 17,	30.11	36.0	41.0	31.0	53	82		00.0	W.	E.		9	12		O.	O.			0.00
Tuesday, 18,	29.83	30.0	41.0	20.0	100	94		00.0	N. E.	N.		7	9		O.	O.		17th. 10.15 p.m. 7.40 a.m.	0.18
Wednes'y, 19,	30.15	24.0	31.0	18.0	86	62		00.0	N. W.	N.		12	10		O.	O.		9 p.m. Dn.	T.
Thursday, 20,	29.67	30.0	37.0	22.0	100	65		00.0	E.	W.		12	30		N.	C.		Dn, 12.30?	0.69
Friday, 21,	29.94	12.0	18.0	7.0	51	45		00.0	W.	N. W.		12	7		C.	C.			0.00
Saturday, 22,	30.07	12.0	20.0	5.0	53	32		00.0	N.	W.		12	8		C.	C.			0.00
Week, - -																			

* O., Cloudy; C., Cloudless; F., Partly Cloudy; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, March 1, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING MARCH 1, 1890

Deaths reported to the State Board of Health in 19 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Whooping Cough.	Diphtheria and Croup.
Boston,	418,110	185	58	5	34	1	1	1
Worcester,	81,622	25	14	..	6	..	..	..
Lowell,	73,370	..	..	..	..	..	..	..
Cambridge,	67,026	15	5	3	1	1	..	..
Fall River,	64,092	28	11	2	6	..	1	..
Lynn,	55,200	16	7	1	1	..	..	..
Springfield,	41,520	18	4	3	6	..	..	2
Lawrence,	41,058	23	7	1	5	..	..	..
New Bedford,	38,218	18	7	2	3	2	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	9	2	1	..	..	..	1
Chelsea,	28,781	6	2	1	2	..	..	..
Haverhill,	27,124	..	..	..	..	..	..	..
Taunton,	25,544	7	4	..	3	..	..	..
Gloucester,	24,904	7	2	..	..	..	..	..
Newton,	22,011	8	2	..	1	..	..	..
Malden,	20,615	14	4	3	1	1	..	1
Waltham,	17,998	11	5	1	3	..	1	..
Fitchburg,	17,304	8	2	..	1	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	4	2	2	1	..	1	1
Quincy,	14,114	..	..	..	..	..	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	5	2	..	..	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	5	1	..	1	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Whooping Cough.	Diphtheria and Croup.
Total of reporting towns,	1,033,299	412	141	24	75	5	4	6

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 19 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Twenty-five deaths were reported from the principal infectious diseases: diphtheria and croup, 6; diarrhœal diseases, 5; whooping cough. 4; scarlet fever, 4; cerebro-spinal meningitis, 2; typhoid fever, 2; measles, 1.

No deaths were reported from small-pox and malarial fever.

There were 75 deaths from acute lung diseases; consumption, 69; still-births, 18.

From scarlet fever: Boston, 2; Cambridge and Malden, 1 each. From cerebro-spinal meningitis: Lynn and Springfield, 1 each. From typhoid fever: Cambridge and Lawrence, 1 each. From measles: Fall River, 1.

Deaths from the principal infectious diseases numbered 25 against 54 for the preceding week.

Deaths under five years of age numbered 141 against 152 for the preceding week.

Cases reported in Boston: diphtheria, 39; scarlet fever, 28; typhoid fever, 4; and measles, 1.

The death-rates for the week were: Boston, 23.01; Worcester, 15.92; Lowell, ——; Cambridge, 11.63; Fall River, 22.71; Lynn, 15.07; Springfield, 22.54; Lawrence, 29.11; New Bedford, 24.48; Holyoke, ——; Somerville, ——; Brockton, ——; Salem, 16.00; Chelsea, 10.84; Haverhill, ——; Taunton, 14.24; Gloucester, 14.61; Newton, 18.89; Malden, 35.30; Waltham, 31.76; Fitchburg, 24.04; Quincy, ——; Northampton, ——; Newburyport, 18.61; Woburn, ——.

The total death-rate for the week was 20.73 against 21.43 and 21.09 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.			VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, March 1, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.		MEAN.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 23,	30.08	28.0	42.0	15.0	76	55		00.0	W.	S.		1	6		C.	O.			0.00
Monday, 24,	30.06	40.0	47.0	33.0	84	92		00.0	S.	S.		8	2		O.	O.			0.01
Tuesday, 25,	30.02	41.0	44.0	38.0	92	100		00.0	W.	E.		2	12		G.	R.			0.40
Wednes'y, 26,	29.89	45.0	53.0	37.0	96	92		00.0	N. W.	E.		12	4		G.	O.			0.08
Thursday, 27,	30.24	38.0	40.0	36.0	92	100		00.0	N. E.	N. E.		8	10		G.	G.			T.
Friday, 28,	30.04	38.0	40.0	37.0	87	100		00.0	E.	S. E.		7	4		O.	R.			0.04
Saturday, March 1,	29.78	41.0	46.0	37.0	92	92		00.0	N. W.	N. W.		7	8		R.	R.			0.35
Week, - -																			

* O., Cloudy; C., Cloudless; F., Partly Cloudy; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In the 22 smaller towns of Massachusetts as reported to the State Board of Health for the month of February.

The total death-rate of reporting towns for the month was 17.92.

TOWNS.	Estimated Population.	Reported Deaths in each.	Deaths under five years of age.	Deaths from				
				Infectious Diseases.	Acute Lung Diseases.	Diphtheria and Croup.	Whooping-Cough.	Cerebro-Spinal Meningitis.
Hyde Park,	9,468	..	..	..	..	..	..	..
Plymouth,	7,633	..	..	..	..	..	..	..
Wakefield,	6,382	7	2	..	1	..	..	..
Andover,	5,985	..	..	..	..	..	..	..
Stoneham,	5,957	4	0	..	2	..	..	..
Middleborough,	5,737	13	1	..	..	..	..	..
Winchester,	4,681	4	2	..	..	..	..	..
Arlington,	5,039	..	..	..	..	..	..	..
West Springfield,	4,784	9	1	2	2	1	1	..
Revere,	4,675	..	..	..	..	..	..	..
Provincetown,	4,580	..	..	..	..	..	..	..
Hingham,	4,375	10	1	1	..	1	..	..
Amherst,	4,310	..	..	..	..	..	..	1
Concord,	4,310	6	1	1	2	..	..	..
Whitman,	4,264	..	..	..	..	..	..	..
Braintree,	4,188	..	..	..	..	..	..	..
Hudson,	4,185	3	1	2	..	2	..	..
Randolph,	3,807	12	2	4	..	4	..	..
Northbridge,	3,786	..	..	..	..	..	..	..
No. Andover,	3,585	..	..	..	..	..	..	..
Mansfield,	3,064	..	..	..	..	..	..	..
Leicester,	2,987	1	0	..	..	..	..	..
Fairhaven,	2,915	..	..	..	..	..	..	..
Nantucket,	2,912	..	..	..	..	..	..	..
Wrentham,	2,852	2	0	..	1	..	..	..
Swampscott,	2,630	4	2	..	2	..	..	..
Merrimac,	2,461	2	1	..	..	..	..	..
Chelmsford,	2,304	..	..	..	..	..	..	..
Dalton,	2,240	2	0	..	..	..	..	..
Cohasset,	2,230	..	..	..	..	..	..	..
Northborough,	2,095	..	..	..	..	..	..	..
Ashburnham,	2,058	..	..	..	..	..	..	..
Groton,	2,037	4	0	..	..	..	..	..
Longmeadow,	1,787	7	1	..	1	..	..	..
Conway,	1,573	..	..	..	..	..	..	..
Shrewsbury,	1,400	3	2	..	..	..	..	..
Topsfield,	1,141	2	1	..	1	..	..	..
Truro,	972	3	0	..	1	..	..	..
Heath,	575	1	0	..	..	..	..	..
Wendell,	545	1	0	..	..	..	..	..
Norton,	1,770	1	0	..	..	..	..	..
Total of reporting towns,	75,195	101	18	10	13	8	1	1

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, March 8, 1890,

AND

MONTHLY BULLETIN

OF

FOOD AND DRUG INSPECTION

For the Month of February.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING MARCH 8, 1890.

Deaths reported to the State Board of Health in 14 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Whooping Cough.	Diphtheria and Croup.
Boston,	418,110	169	55	22	33	4	4	12
Worcester,	81,622	32	12	3	4	1	..	..
Lowell,	73,370	36	12	4	..	..	..	3
Cambridge,	67,026	..	..	..	..	..	..	..
Fall River,	64,092	36	18	5	6	1	2	1
Lynn,	55,200	18	..	3	2	..	..	3
Springfield,	41,520	13	1	2	1	..	..	2
Lawrence,	41,058	14	4	2	2	1	1	..
New Bedford,	38,218	12	2	..	3	..	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	10	3	..	1	..	..	..
Chelsea,	28,781	..	..	..	..	..	..	..
Haverhill,	27,124	..	..	..	..	..	..	..
Taunton,	25,544	13	5	1	1	..	..	1
Gloucester,	24,904	5	1	..	2	..	..	..
Newton,	22,011	6	3	..	..	..	..	..
Malden,	20,615	..	..	..	..	..	..	..
Waltham,	17,998	6	1	2	1	..	..	..
Fitchburg,	17,304	..	..	..	..	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	..	..	..	..	..	..	..
Quincy,	14,114	..	..	..	..	..	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	..	..	..	..	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	4	2	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Whooping Cough.	Diphtheria and Croup.
Total of reporting towns,	943,286	374	118	44	56	7	7	22

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 14 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-four deaths were reported from the principal infectious diseases: diphtheria and croup, 22; whooping cough, 7; diarrhœal diseases, 7; typhoid fever, 4; erysipelas, 2; measles, 1; cerebro-spinal meningitis, 1.

No deaths were reported from small-pox and malarial fevers.

There were 56 deaths from acute lung diseases; consumption, 49; still-births, 18.

From typhoid fever: Boston and Lowell, 1 each; Waltham, 2. From erysipelas: Boston and Worcester, 1 each. From measles: Fall River, 1. From cerebro-spinal meningitis: Worcester, 1.

Deaths from the principal infectious diseases numbered 44 against 25 for the preceding week.

Deaths under five years of age numbered 118 against 141 for the preceding week.

Cases reported in Boston: diphtheria, 28; scarlet fever, 21; typhoid fever, 7; and measles, 3.

The death-rates for the week were: Boston, 21.02; Worcester, 20.38; Lowell, 25.51; Cambridge, ——; Fall River, 29.79; Lynn, 16.95; Springfield, 16.27; Lawrence, 17.72; New Bedford, 16.32; Holyoke, ——; Somerville, ——; Brockton, ——; Salem, 17.78; Chelsea, ——; Haverhill, ——; Taunton, 26.45; Gloucester, 10.44; Newton, 14.17; Malden, ——; Waltham, 17.33; Fitchburg, ——; Quincy, ——; Northampton, ——; Newburyport, ——; Woburn, ——.

The total death-rate for the week was 20.62 against 20.73 and 21.43 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.			VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, March 8, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 2,	29.89	00.0	26.0	18.0	82	93	00.0	N. W.	N.	14	24	O.	N.		0.12
Monday, 3,	29.99	00.0	28.0	16.0	85	38	00.0	N. W.	W.	14	4	N.	C.		0.80
Tuesday, 4,	30.19	00.0	38.0	14.0	72	65	00.0	W.	S.	6	9	C.	C.		0.00
Wednes'y, 5,	30.10	00.0	44.0	28.0	82	61	00.0	S.	W.	24	12	O.	O.		T.
Thursday, 6,	30.08	00.0	27.0	20.0	87	86	00.0	N.	N. W.	16	14	N.	N.		0.40
Friday, 7,	30.23	00.0	23.0	4.0	60	49	00.0	N.	N. W.	22	8	C.	C.		T.
Saturday, 8,	30.28	00.0	31.0	12.0	61	52	00.0	N. W.	N. W.	11	14	O.	C.		0.00
Week, - -															

* O., Cloudy; C., Cloudless; F., Partly Cloudy; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of February: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk,	114	114	228	Molasses,	7	5	12
Butter,	9	9	18	Honey,	2	1	3
Cheese,	1	..	1	Vinegar,	7	4	11
Lard,	3	2	5	Canned Goods,	..	..	..
Olive Oil,	..	..	..	Tea,	8	..	8
Spices,	30	5	35	Coffee,	1	..	1
Cream of Tartar,	19	2	21	Confectionery,	3	..	3
Syrups,	..	1	1	Other articles of Food and Drink,	2	..	2
Maple Syrup,	1	2	3	Drugs,	26	7	33
Maple Sugar,	1	..	1	Totals,	234	152	386

Percentage of adulteration, 39.3. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration. The percentage of adulteration of other articles, not including milk, was only 24.0. The percentage of samples of milk below the standard of 13 per cent. of solids was 50.0, but 33 per cent. of the entire number were found to have between 12 and 13 per cent. of solids, so that the actual number below 12 per cent. was small.

Eight complaints were entered in the courts during the month for violation of the Food and Drug laws. Six were for illegal sales of butter, one of milk and one of molasses.

In seven of these cases the parties were convicted, and in one case the defendant failed to appear on account of illness.

The samples of drugs examined were Sulphate of Quinine, Citrate of Iron and Quinine, Tincture of Opium, Ether, Spirits of Nitrous Ether, Iodoform, Iodide of Potassium, Subnitrate of Bismuth, Tannic Acid, Ginger, Hydrochlorate of Apomorphia, Compound Spirits of Ether, Hydrate of Chloral, Chloroform, Sulphate of Magnesia, Lycopodium, Arrow Root, Honey, Glycerine, Port Wine and Distilled Water.

The cities and towns from which samples of food were collected during the month were as follows: — Boston, Springfield, Cambridge, Lowell, Gloucester, Newton, Somerville, Malden, Worcester, Lawrence, Marlborough, Chicopee, West Medway, Medfield, Norfolk, Bedford, Concord, Watertown, Weston, Princeton, Uxbridge, Blackstone, Franklin, Webster and Southbridge.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, March 15, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING MARCH 15, 1890.

Deaths reported to the State Board of Health in 20 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Whooping Cough.	Diarrhœal Diseases.	Diphtheria and Croup.
Boston,	418,110	200	62	17	42	..	3	10
Worcester,	81,622	32	12	2	7	..	1	1
Lowell,	73,370	31	10	6	6	..	1	2
Cambridge,	67,026	24	6	4	2	..	1	1
Fall River,	64,092	30	19	5	13	2	1	2
Lynn,	55,200	20	7	3	1	1	1	1
Springfield,	41,520	17	6	3	6	..	..	1
Lawrence,	41,058	22	9	1	1	..	..	..
New Bedford,	38,218	13	6	3	2	2	..	1
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	14	6	..	1	..	..	..
Chelsea,	28,781	10	1	..	1	..	..	..
Haverhill,	27,124	6	1	1	2	..	..	1
Taunton,	25,544	..	..	..	..	..	..	..
Gloucester,	24,904	4	1	..	..	..	..	..
Newton,	22,011	4	1	..	..	..	..	..
Malden,	20,615	4	2	..	1	..	..	..
Waltham,	17,998	5	1	1	1	1	..	..
Fitchburg,	17,304	4	0	..	1	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	7	4	1	3	..	..	..
Quincy,	14,114	5	2	..	1	..	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	..	..	..	..	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	5	3	..	1	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Whooping Cough.	Diarrhœal Diseases.	Diphtheria and Croup.
Total of reporting towns,	1,108,468	457	159	47	92	6	8	20

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 20 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-seven deaths were reported from the principal infectious diseases: diphtheria and croup, 20; diarrhœal diseases, 8; whooping-cough, 6; typhoid fever, 5; scarlet fever, 3; cerebro-spinal meningitis, 2.

No deaths were reported from small-pox and malarial fevers.

There were 92 deaths from acute lung diseases; consumption, 68; and still-births, 27.

From typhoid fever: Lowell, 2; Boston, Springfield and Lawrence, 1 each. From scarlet fever: Cambridge, 2; Pittsfield, 1. From cerebro-spinal meningitis: Lowell and Springfield, 1 each.

Deaths from the principal infectious diseases numbered 47 against 44 for the preceding week.

Deaths under five years of age numbered 159 against 118 for the preceding week.

Cases reported in Boston: diphtheria, 35; scarlet fever, 28; measles, 11; and typhoid fever, 8.

The death-rates for the week were: Boston, 24.88; Worcester, 20.38; Lowell, 21.96; Cambridge, 18.60; Fall River, 24.33; Lynn, 18.84; Springfield, 21.28; Lawrence, 27.85; New Bedford, 17.68; Holyoke, —— ; Somerville, —— ; Brockton, —— ; Salem, 24.89; Chelsea, 18.06; Haverhill, 11.50; Taunton, —— ; Gloucester, 8.35; Newton, 9.44; Malden, 10.08; Waltham, 14.44; Fitchburg, 12.02; Quincy, 18.40; Northampton, —— ; Newburyport, —— ; Woburn, ——.

The total death-rate for the week was 21.43 against 20.62 and 20.73 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.			VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, March 15, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 9,	30.44	00.0	33.0	18.0	34	43	00.0	N. W.	N. W.	6	8	C.	C.		0.00
Monday, 10,	30.43	00.0	48.0	19.0	56	43	00.0	W.	S. W.	5	16	C.	C.		0.00
Tuesday, 11,	30.27	00.0	46.0	36.0	76	96	00.0	S.	S. W.	19	6	R.	R.		0.04
Wednes'y, 12,	30.13	00.0	68.0	41.0	86	77	00.0	S. W.	S. W.	12	15	O.	C.		0.01
Thursday, 13,	30.14	00.0	65.0	52.0	82	81	00.0	S. W.	N. W.	8	8	F.	O.		0.00
Friday, 14,	30.08	00.0	44.0	35.0	88	91	00.0	N.	N. E.	6	10	R.	R.		0.50
Saturday, 15,	30.71	00.0	36.0	33.0	95	91	00.0	N.	N.	12	6	S.	R.		0.64
Week, - -															

* O., Cloudy; C., Cloudless; F., Partly Cloudy; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, March 22, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING MARCH 22, 1890.

Deaths reported to the State Board of Health in 20 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	217	74	21	44	3	2	10
Worcester,	81,622	26	12	3	1	..	1	1
Lowell,	73,370	31	14	2	5	1	1	..
Cambridge,	67,026	18	4	..	1	..	..	..
Fall River,	64,092	33	10	4	8	..	3	..
Lynn,	55,200	15	4	..	1	..	..	..
Springfield,	41,520	24	5	2	8	..	..	2
Lawrence,	41,058	22	7	2	..	1	..	1
New Bedford,	38,218	16	5	..	4	..	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	7	1	..	1	..	..	..
Chelsea,	28,781	9	1	..	..	..	..	..
Haverhill,	27,124	6	1	1	1	..	..	1
Taunton,	25,544	..	..	..	..	..	..	..
Gloucester,	24,904	6	0	..	..	..	..	..
Newton,	22,011	4	1	1	..	1	..	..
Malden,	20,615	5	2	1	..	1	..	..
Waltham,	17,998	6	0	..	..	..	..	..
Fitchburg,	17,304	..	..	..	..	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	7	2	2	3	..	..	1
Quincy,	14,114	3	1	1	..	..	..	1
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	4	1	..	1	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	7	3	..	3	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,105,079	466	148	40	81	7	7	17

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 20 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty deaths were reported from the principal infectious diseases: diphtheria and croup, 17; typhoid fever, 7; diarrhœal diseases, 7; scarlet fever, 3; whooping-cough. 3; erysipelas, 2; measles, 1.

No deaths were reported from small-pox and malarial fevers.

There were 81 deaths from acute lung diseases; consumption, 78; and still-births, 13.

From scarlet fever: Boston, 2; Pittsfield, 1. From whooping-cough: Boston, 2; Fall River, 1. From erysipelas: Boston, 2. From measles: Worcester, 1.

Deaths from the principal infectious diseases numbered 40 against 47 for the preceding week.

Deaths under five years of age numbered 148 against 159 for the preceding week.

Cases reported in Boston: diphtheria, 39; scarlet fever, 27; typhoid fever, 6; measles, 4.

The death-rates for the week were: Boston, 26.99; Worcester, 16.56; Lowell, 21.95; Cambridge, 13.95; Fall River, 26.76; Lynn, 14.13; Springfield, 30.05; Lawrence, 15.19; New Bedford, 21.76; Holyoke, —— ; Somerville, —— ; Brockton, —— ; Salem, 12.44; Chelsea, 16.25; Haverhill, 11.50; Taunton, —— ; Gloucester, 12.52; Newton, 9.44; Malden, 12.60; Waltham, 17.28; Fitchburg, —— ; Quincy, 11.04; Northampton, —— ; Newburyport, 14.92; Woburn, ——.

The total death-rate for the week was 21.92 against 21.43 and 20.62 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, March 22, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 16,	29.35	00.0	40.0	28.0	69	65	00.0	N. W.	N. W.	12	18	C.	O.		0.02
Monday, 17,	29.38	00.0	39.0	19.0	58	50	00.0	W.	S. W.	22	16	C.	C.		0.00
Tuesday, 18,	29.53	00.0	47.0	32.0	64	50	00.0	S. W.	W.	19	12	C.	N.		0.00
Wednes'y, 19,	29.64	00.0	32.0	21.0	49	87	00.0	N. E.	N.W.	12	15	O.	O.		0.50
Thursday, 20,	29.89	00.0	46.0	21.0	77	68	00.0	S. W.	S. W.	13	14	C.	C.		T.
Friday, 21,	29.57	00.0	55.0	39.0	89	87	00.0	S.	S. W.	15	13	O.	C.		0.01
Saturday, 22,	29.65	00.0	49.0	38.0	73	100	00.0	S.	N.	5	18	O.	R.		1.18
Week, - -	29.57		44.0	28.0											

* O., Cloudy; C., Cloudless; F., Partly Cloudy; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, March 29, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING MARCH 29, 1890.

Deaths reported to the State Board of Health in 23 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	202	61	23	38	3	1	14
Worcester,	81,622	31	7	1	5	..	..	1
Lowell,	73,370	28	11	2	4	..	..	1
Cambridge,	67,026	22	9	3	7	..	2	..
Fall River,	64,092	29	12	..	4	..	..	..
Lynn,	55,200	14	0	2	..	1	1	..
Springfield,	41,520	15	0	..	3	..	..	..
Lawrence,	41,058	29	10	6	2	..	2	2
New Bedford,	38,218	16	6	2	3	..	1	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	8	4	..	1	..	..	..
Salem,	29,242	12	2	2	2	..	..	1
Chelsea,	28,781	12	7	1	..	..	..	1
Haverhill,	27,124	12	3	..	..	..	..	..
Taunton,	25,544	12	5	..	3	..	..	..
Gloucester,	24,904	3	0	1	1	..	..	..
Newton,	22,011	4	1	..	2	..	..	..
Malden,	20,615	5	1	..	..	..	..	..
Waltham,	17,998	1	1	..	..	..	..	..
Fitchburg,	17,304	8	2	..	1	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	4	4	..	..	..	..	..
Quincy,	14,114	5	5	1	..	..	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	6	1	..	1	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	3	1	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,178,738	481	153	44	77	4	7	20

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 23 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-four deaths were reported from the principal infectious diseases: diphtheria and croup, 20; typhoid fever, 7; diarrhœal diseases, 4; whooping-cough, 4; erysipelas, 3; cerebro-spinal meningitis, 3; scarlet fever, 2; measles, 1.

No deaths were reported from small-pox and malarial fevers.

There were 77 deaths from acute lung diseases; consumption, 58; and still-births, 28.

From whooping-cough: Lawrence, 2; Boston and Lowell, 1 each. From erysipelas: Boston, 2; Cambridge, 1. From cerebro-spinal meningitis: Salem, Gloucester and Quincy, 1 each. From scarlet fever: Boston, 2. From measles: New Bedford, 1.

Deaths from the principal infectious diseases numbered 44 against 40 for the preceding week.

Deaths under five years of age numbered 153 against 148 for the preceding week.

Cases reported in Boston: diphtheria, 41; scarlet fever, 23; measles, 7; and typhoid fever, 6.

The death-rates for the week were: Boston, 25.12; Worcester, 19.74; Lowell, 19.82; Cambridge, 17.05; Fall River, 23.51; Lynn, 13.19; Springfield, 18.78; Lawrence, 36.71; New Bedford, 21.76; Holyoke, —— ; Somerville, —— ; Brockton, 13.54; Salem, 21.33; Chelsea, 21.67; Haverhill, 23.00; Taunton, 24.42; Gloucester, 6.24; Newton, 9.45; Malden, 12.60; Waltham, 2.88; Fitchburg, 24.48; Quincy, 18.40; Northampton, —— ; Newburyport, 22.38; Woburn, ——.

The total death-rate for the week was 21.22 against 21.92 and 21.43 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, March 29, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	7 A. M.	3 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 23,	29.71	01.0	41.0	33.0	76	62	00.0	N. W.	W.	12	19	R.	O.		0.69
Monday, 24,	30.29	00.0	40.0	24.0	69	45	00.0	N.	N. W.	15	8	C.	C.		0.00
Tuesday, 25,	30.24	00.0	42.0	25.0	87	76	00.0	N. E.	S.	6	16	O.	R.		T.
Wednes'y, 26,	29.55	00.0	61.0	40.0	58	59	00.0	S. W.	W.	11	9	O.	O.		0.33
Thursday, 27,	29.73	00.0	48.0	36.0	100	100	00.0	W.	N.	33	11	C.	C.		0.00
Friday, 28,	29.53	00.0	37.0	31.0	83	72	00.0	N. E.	W.	14	20	R.	R.		0.89
Saturday, 29,	29.44	00.0	39.0	31.0	87	72	00.0	S. W.	W.	12	18	N.	N.		0.04
Week, - -															

* O., Cloudy; C., Cloudless; F., Partly Cloudy; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, April 5, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING APRIL 5, 1890.

Deaths reported to the State Board of Health in 21 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Scarlet Fever.
Boston,	418,110	169	59	15	26	4	7	2
Worcester,	81,622	38	14	..	6	..	..	..
Lowell,	73,370	30	10	4	4	2	1	1
Cambridge,	67,026	25	6	4	6	2	2	..
Fall River,	64,092	23	10	1	4	..	1	..
Lynn,	55,200	..	..	..	..	..	..	..
Springfield,	41,520	14	3	2	3	..	1	..
Lawrence,	41,058	24	6	2	5	..	..	..
New Bedford,	38,218	19	8	..	3	..	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	13	2	1	1	..	..	1
Chelsea,	28,781	13	2	..	1	..	..	..
Haverhill,	27,124	10	3	1	..	..	..	..
Taunton,	25,544	12	3	1	3	..	..	..
Gloucester,	24,904	4	1	..	..	..	..	..
Newton,	22,011	5	1	..	..	..	..	..
Malden,	20,615	11	6	3	1	..	3	..
Waltham,	17,998	5	0	..	1	..	..	..
Fitchburg,	17,304	7	2	..	1	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	3	2	1	..	..	..	..
Quincy,	14,114	4	1	..	1	..	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	5	2	1	1	..	1	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	3	2	1	1	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Scarlet Fever.
Total of reporting towns,	1,092,727	438	143	37	68	8	16	4

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 21 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Thirty-seven deaths were reported from the principal infectious diseases: diphtheria and croup, 16; diarrhœal diseases, 8; scarlet fever, 4; typhoid fever, 3; whooping-cough, 3; cerebro-spinal meningitis, 2; erysipelas, 1.

No deaths were reported from small-pox and malarial fevers.

There were 68 deaths from consumption; acute lung diseases, 47; and still-births, 27.

From whooping-cough: Boston, Taunton and Pittsfield, 1. From typhoid fever: Lawrence, 2; Springfield, 1. From cerebro-spinal meningitis: Haverhill and Peabody, 1 each. From erysipelas: Boston, 1.

Deaths from the principal infectious diseases numbered 37 against 44 for the preceding week.

Deaths under five years of age numbered 143 against 153 for the preceding week.

Cases reported in Boston: diphtheria, 31; scarlet fever, 27; typhoid fever, 8; and measles, 1.

The death-rates for the week were: Boston, 21.02; Worcester, 24.20; Lowell, 21.24; Cambridge, 19.37; Fall River, 18.65; Lynn, ——; Springfield, 17.52; Lawrence, 30.38; New Bedford, 25.84; Holyoke, ——; Somerville, ——; Brockton, ——; Salem, 23.11; Chelsea, 23.47; Haverhill, 19.17; Taunton, 24.42; Gloucester, 8.35; Newton, 11.81; Malden, 27.72; Waltham, 11.28; Fitchburg, 21.42; Quincy, 14.72; Northampton, ——; Newburyport, 18.65; Woburn, ——.

The total death-rate for the week was 20.84 against 21.22 and 21.92 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, April 5, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	3 A. M.	10 P. M.	8 A. M.	8 P. M.	3 A. M.	10 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
March.															
Sunday, 30,	29.94	35.0	42.0	28.0	62	47	00.0	W.	W.	16	8	C.	C.		0.01
Monday, 31,	30.32	36.0	45.0	28.0	63	53	00.0	W.	S.	9	17	C.	O.		0.00
April.															
Tuesday, 1,	30.25	37.0	43.0	31.0	81	32	00.0	N. W.	N.W.	8	11	C.	C.		0.04
Wednes'y, 2,	30.40	38.0	50.0	27.0	53	34	00.0	W.	S. W.	12	16	C.	H.		0.00
Thursday, 3,	30.17	53.0	67.0	40.0	56	50	00.0	W.	S. W.	9	14	F.	H.		0.00
Friday, 4,	29.66	57.0	65.0	50.0	76	94	00.0	S. W.	S. W.	14	9	O.	O.		0.00
Saturday, 5,	29.93	38.0	45.0	32.0	68	56	00.0	N.W.	N.W.	12	18	C.	C.		0.12
Week, - -															

* O., Cloudy; C., Cloudless; F., Partly Cloudy; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In the 25 smaller towns of Massachusetts as reported to the State Board of Health for the month of March.

The total death-rate of reporting towns for the month was 16.26.

TOWNS.	Estimated Population.	Reported Deaths in each.	Deaths under five years of age.	Deaths from				
				Infectious Diseases.	Consumption.	Diphtheria and Croup.	Whooping-Cough.	Typhoid Fever.
Hyde Park,	9,468	..	..	..	..	..	..	..
Plymouth,	7,557	8	2	3	1	3	..	..
Wakefield,	6,382	9	0	..	..	..	..	..
Andover,	5,985	5	0	..	..	..	..	..
Stoneham,	5,957	9	0	..	4	..	..	..
Middleborough,	5,737	10	1	..	..	..	..	..
Winchester,	5,098	8	0	..	2	..	..	..
Arlington.	5,039	..	..	..	..	..	..	..
West Springfield,	4,784	13	3	1	..	..	1	..
Revere,	4,675	..	..	..	..	..	..	..
Provincetown,	4,580	..	..	..	..	..	..	..
Hingham,	4,375	7	2	..	..	..	..	..
Amherst,	4,310	..	..	..	..	..	..	..
Concord,	4,310	6	1	..	..	..	..	..
Whitman,	4,264	..	..	..	..	..	..	..
Braintree,	4,188	..	..	..	..	..	..	..
Hudson,	4,185	6	1	..	3	..	..	..
Randolph,	3,807	4	0	1	1	1	..	..
Northbridge,	3,786	..	..	..	..	..	..	..
No. Andover,	3,585	2	0	..	1	..	..	..
Bradford,	3,603	2	0	2	..	1	..	1
Leicester,	2,987	..	..	..	..	..	..	..
Fairhaven,	2,915	2	0	..	1	..	..	..
Nantucket,	2,912	..	..	..	..	..	..	..
Wrentham,	2,852	1	0	..	1	..	..	..
Swampscott,	2,630	3	0	..	2	..	..	..
Merrimac,	2,461	3	1	..	2	..	..	..
Chelmsford,	2,304	..	..	..	..	..	..	..
Dalton,	2,240	4	0	..	..	..	..	..
Cohasset,	2,230	..	..	..	..	..	..	..
Northborough,	2,095	..	..	..	..	..	..	..
Ashburnham,	2,058	..	..	..	..	..	..	..
Groton,	2,037	2	0	1	..	1	..	..
Longmeadow,	1,787	4	1	..	..	..	..	..
Conway,	1,573	1	0	..	..	..	..	..
Shrewsbury,	1,400	1	0	..	..	..	..	..
Topsfield,	1,141	2	0	..	1	..	..	..
Truro,	972	1	1	..	..	..	..	..
Heath,	575	..	..	..	..	..	..	..
Wendell,	545	..	..	..	..	..	..	..
Norton,	1,718	3	0	..	..	..	..	..
Total of reporting towns,	85,611	116	13	8	19	6	1	1

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, April 12, 1890,

AND

MONTHLY BULLETIN

OF

FOOD AND DRUG INSPECTION

For the Month of March.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING APRIL 12, 1890.

Deaths reported to the State Board of Health in 21 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	173	56	26	34	4	2	14
Worcester,	81,622	25	9	2	3	..	..	2
Lowell,	73,370	32	13	4	3	1	1	..
Cambridge,	67,026	21	7	3	4	..	..	2
Fall River,	64,092	32	14	3	6	..	..	1
Lynn,	55,200	13	0	2	2	..	..	1
Springfield,	41,520	21	7	3	2	..	..	3
Lawrence,	41,058	13	6	1	5	..	1	..
New Bedford,	38,218	14	5	1	2	..	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	9	2	..	..	..	..	..
Chelsea,	28,781	12	6	3	..	..	..	2
Haverhill,	27,124	16	4	3	1	..	1	..
Taunton,	25,544	15	9	1	2	..	..	..
Gloucester,	24,904	5	2	2	..	..	..	..
Newton,	22,011	7	3	1	2	..	..	1
Malden,	20,615	9	6	1	1	1	..	..
Waltham,	17,998	5	1	1	..	..	..	..
Fitchburg,	17,364	5	4	1	2	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	1	0	..	..	..	..	..
Quincy,	14,114	5	0	..	1	..	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	5	3	2	1	..	..	2
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,137,530	438	157	60	71	6	5	28

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 21 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Sixty deaths were reported from the principal infectious diseases: diphtheria and croup, 28; diarrhœal diseases, 6; typhoid fever, 5; erysipelas, 5; whooping-cough, 5; cerebro-spinal meningitis, 4; puerperal fever, 3; scarlet fever, 3; measles, 1.

No deaths were reported from small-pox and malarial fevers.

There were 71 deaths from acute lung diseases; consumption, 63; and still-births, 43.

From erysipelas: Boston, 3; Lowell and Haverhill, 1 each. From whooping-cough: Boston, Fall River, Lynn, New Bedford and Waltham, 1 each. From cerebro-spinal meningitis: Cambridge, Fall River, Haverhill and Gloucester, 1 each. From puerperal fever: Boston, 2; Lowell, 1. From scarlet fever: Chelsea, Gloucester and Fitchburg, 1 each. measles: Taunton, 1.

Deaths from the principal infectious diseases numbered 60 against 37 for the preceding week.

Deaths under five years of age numbered 157 against 143 for the preceding week.

Cases reported in Boston: diphtheria, 28; scarlet fever, 26; measles, 7; and typhoid fever, 4.

The death-rates for the week were: Boston, 21.52; Worcester, 15.92; Lowell, 22.65; Cambridge, 16.27; Fall River, 25.95; Lynn, 12.24; Springfield, 26.29; Lawrence, 16.45; New Bedford, 19.04; Holyoke, —— ; Somerville, —— ; Brockton, —— ; Salem, 16.00; Chelsea, 21.67; Haverhill, 30.67; Taunton, 30.53; Gloucester, 10.44; Newton, 16.53; Malden, 19.18; Waltham, 14.40; Fitchburg, 15.30; Quincy, 18.40; Northampton, —— ; Newburyport, 18.65; Woburn, ——.

The total death-rate for the week was 20.02 against 20.84 and 21.22 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.			VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, April 12, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	3 P. M.	10 P. M.	3 P. M.	10 P. M.	3 P. M.	10 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 6,	30.17	45.0	60.0	30.0	47	43	00.0	W.	S. W.	12	17	C.	C.		0.00
Monday, 7,	29.87	42.0	47.0	38.0	79	84	00.0	S. E.	N.W.	7	5	R.	C.		0.38
Tuesday, 8,	29.97	46.0	55.0	37.0	63	96	00.0	W.	S.	9	10	C.	R.		0.10
Wednes'y, 9,	29.63	38.0	40.0	37.0	96	96	00.0	N. E.	N.	14	7	R.	R.		0.63
Thursday, 10,	29.63	45.0	53.0	38.0	66	67	00.0	W.	W.	18	8	O.	O.		0.02
Friday, 11,	29.93	44.0	50.0	38.0	63	61	00.0	N.W.	N.W.	18	8	O.	C.		0.00
Saturday, 12,	30.28	38.0	44.0	32.0	50	62	00.0	N.W.	S. E.	6	7	C.	C.		0.00
Week, - -															

* O., Cloudy; C., Cloudless; F., Partly Cloudy; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of March: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	157	81	238	Molasses, . .	21	1	22
Butter, . . .	10	5	15	Honey, . . .	4	3	7
Cheese, . . .	2	..	2	Vinegar, . .	10	4	14
Lard, . . .	6	2	8	Canned Goods, .	1	2	3
Olive Oil, . . .	1	1	2	Tea, . . .	6	..	6
Spices, . . .	55	12	67	Coffee, . . .	2	..	2
Cream of Tartar, .	18	2	20	Confectionery, .	4	..	4
Syrups, . . .	..	2	2	Other articles of Food and Drink, . .	5	5	10
Maple Syrup, . .	3	5	8	Drugs, . . .	33	4	37
Maple Sugar, . .	4	..	4	Totals, . .	342	129	471

Percentage of adulteration, 27.4. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration. The percentage of adulteration of articles of food not including milk was only 20.6. The quality of the milk examined during the month, as ascertained from samples obtained upon the streets of the principal cities and towns, from shops and wagons, was unusually good.

Eleven complaints were entered in the courts during the month for violation of the Food and Drug acts; of which four were for fraudulent sales of milk, five of butter, and two of pepper. In eight of these the defendants were convicted, and in three they were discharged.

The samples of drugs examined were Jalap, Citrate of Iron and Quinine, Dover's Powder, Hydrate of Chloral, Glycerine, Honey, Ether, Spirits of Nitrous Ether, Sulphate of Quinine, Iodide of Potash, Subnitrate of Bismuth, Ginger, Tannic Acid, and an empirical preparation called Modene, a cosmetic employed for destroying superfluous hair. This was found to consist of Calx Sulphurata (Sulphurated Lime), an official drug.

The only articles found to be adulterated were three samples of Jalap, which were deficient in resin.

Two samples of confectioners' sugar were found to contain borax, probably an accidental adulteration.

Two samples of condensed milk were found to contain small amounts of tin.

Three samples of maple syrup were adulterated with from 10 to 30 per cent of glucose.

The cities and towns from which samples of Food and Drugs were collected in March were as follows: — Boston, Cambridge, Brockton, Gloucester, Chelsea, Lawrence, Lowell, Lynn, Haverhill, Salem, Taunton, Holyoke, Worcester, Quincy, Waltham, Fall River, Fitchburg, Natick, Franklin, Ayer, Weston, Ware and Hyde Park.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, April 19, 1890,

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING APRIL 19, 1890.

Deaths reported to the State Board of Health in 23 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From: Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	179	57	19	36	3	..	13
Worcester,	81,622	32	15	1	6	..	..	..
Lowell,	73,370	46	15	1	11	1	..	..
Cambridge,	67,026	29	10	1	8	..	..	1
Fall River,	64,092	25	11	3	5	2	..	1
Lynn,	55,200	18	7	2	4	..	..	2
Springfield,	41,520	16	7	3	3	..	..	2
Lawrence,	41,058	14	1	2	..	1	1	..
New Bedford,	38,218	19	8	..	3	..	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	7	2	..	1	..	..	..
Chelsea,	28,781	8	2	1	3	..	..	1
Haverhill,	27,124	7	3	2	..	..	1	..
Taunton,	25,544	7	3	1	2	1	..	..
Gloucester,	24,904	4	0	..	2	..	..	..
Newton,	22,011	6	2	..	..	..	..	..
Malden,	20,615	7	0	..	3	..	..	..
Waltham,	17,998	5	1	1	2	..	1	..
Fitchburg,	17,364	8	5	..	..	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	3	1	..	1	..	..	..
Quincy,	14,114	2	2	..	..	..	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	8	4	1	3	..	..	1
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Medford,	10,688	3	2	..	1	..	..	..
Peabody,	10,397	4	2	..	2	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,158,615	457	160	38	96	8	3	21

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 21 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Thirty-eight deaths were reported from the prineipal infectious diseases: diphtheria and croup, 21; diarrhœal diseases, 8; typhoid fever, 3; cerebro-spinal meningitis, 2; malarial fever, erysipelas, whooping-cough and puerperal fever, each 1.

No deaths were reported from small-pox.

There were 96 deaths from aeute lung diseases: consumption, 50; and still-births, 29.

From eerebro-spinal meningitis: Boston and Haverhill, 1 each. From malarial fever, Springfield, 1. From erysipelas: Boston, 1. From whooping-eough: Woreester, 1. From puerperal fever: Boston, 1.

Deaths from the prineipal infeetious diseases numbered 38 against 60 for the preeeding week.

Deaths under five years of age numbered 160 against 157 for the preceding week.

Cases reported in Boston: diphtheria, 45; scarlet fever, 23; measles, 9; and typhoid fever, 7.

The death-rates for the week were: Boston, 22.26; Worcester, 21.53; Lowell, 32.60; Cambridge, 22.47; Fall River, 20.27; Lynn, 16.95; Springfield, 19.73; Lawrence, 17.72; New Bedford, 35.84; Holyoke, —— ; Somerville, —— ; Broekton, —— ; Salem, 12.44; Chelsea, 14.44; Haverhill, 13.41; Taunton, 14.24; Glouecester, 8.35; Newton, 14.17; Malden, 17.65; Waltham, 14.44; Fitchburg, 24.04; Quiney, 7.36; Northampton, —— ; Newburyport, 29.76; Woburn, ——.

The total death-rate was 20.51 against 20.02 and 21.22 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.			VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, April 19, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	3 P. M.	10 P. M.	3 P. M.	10 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 13,	30.04	47.0	55.0	38.0	65	78	00.0	S. E.	E.	2	2	C.	C.		0.00
Monday, 14,	29.91	49.0	55.0	44.0	40	85	00.0	N. E.	E.	10	2	C.	T.		0.00
Tuesday, 15,	30.19	47.0	53.0	41.0	54	28	00.0	N.W.	N.W.	22	7	F.	C.		0.01
Wednes'y, 16,	30.21	47.0	58.0	35.0	40	33	00.0	N.W.	W.	12	10	C.	C.		0.00
Thursday, 17,	29.94	53.0	64.0	41.0	39	60	00.0	W.	N.W.	14	12	C.	C.		0.00
Friday, 18,	29.88	43.0	50.0	36.0	34	51	00.0	N.	N.	20	21	T.	T.		0.00
Saturday, 19,	30.16	38.0	50.0	26.0	47	57	00.0	N.W.	S. E.	12	4	C.	O.		0.00
Week, - -															

* O., Cloudy; C., Cloudless; F., Partly Cloudy; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, April 26, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING APRIL 26, 1890.

Deaths reported to the State Board of Health in 23 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	209	59	26	32	2	3	13
Worcester,	81,622	24	13	2	3	..	..	1
Lowell,	73,370	36	15	5	6	3	2	..
Cambridge,	67,026	14	2	1	..	..	..	..
Fall River,	64,092	33	17	7	8	1	1	2
Lynn,	55,200	14	4	..	5	..	..	..
Springfield,	41,520	13	4	1	5	..	..	..
Lawrence,	41,058	24	13	1	3	..	..	..
New Bedford,	38,218	13	8	1	5	..	..	1
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	13	1	1	2	..	..	1
Chelsea,	28,781	9	2	..	1	..	..	..
Haverhill,	27,124	4	1	..	..	..	..	..
Taunton,	25,544	8	2	..	2	..	..	..
Gloucester,	24,904	6	3	3	2	2	..	..
Newton,	22,011	9	1	2	..	..	1	1
Malden,	20,615	3	2	..	..	..	..	..
Waltham,	17,998	5	0	..	..	..	..	..
Fitchburg,	17,304	4	1	..	1	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	3	1	..	2	..	..	..
Quincy,	14,114	8	1	1	..	..	..	1
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	5	1	..	1	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Medford,	10,688	7	1	1	1	..	..	1
Peabody,	10,397	2	1	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,158,615	466	153	52	79	9	7	21

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 23 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty-two deaths were reported from the principal infectious diseases: diphtheria and croup, 21; diarrhœal diseases, 9; typhoid fever, 7; scarlet fever, 6; whooping-cough, 4; puerperal fever, 2; erysipelas, cerebro-spinal meningitis and measles, each 1.

No deaths were reported from small pox and malarial fevers.

There were 79 deaths from acute lung diseases; consumption, 69; and still-births, 31.

From scarlet fever: Boston, 4; Worcester and Gloucester, 1 each. From whooping-cough: Boston and Fall River, 2 each. From puerperal fever: Boston and Cambridge, 1 each. From erysipelas: Boston, . From cerebro-spinal meningitis: Fall River, 1. From measles: Lawrence, 1.

Deaths from the principal infectious diseases numbered 52 against 38 for the preceding week.

Deaths under five years of age numbered 153 against 160 for the preceding week.

Cases reported in Boston: diphtheria, 46; scarlet fever, 28; typhoid fever, 9; and measles, 7.

The death-rates for the week were: Boston, 29.99; Worcester, 15.28; Lowell, 25.51; Cambridge, 10.85; Fall River, 26.73; Lynn, 13.89; Springfield, 16.27; Lawrence, 30.38; New Bedford, 17.68; Holyoke, ——, Somerville, ——; Brockton, ——; Salem, 23.11; Chelsea, 16.25; Haverhill, 7.66; Taunton, 16.28; Gloucester, 12.52; Newton, 21.25; Malden, 7.56; Waltham, 14.44; Fitchburg, 12.02; Quincy, 29.24; Northampton, ——; Newburyport, 18.60; Woburn, ——.

The total death-rate was 20.91 against 20.51 and 20.02 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.			VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, April 26, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	3 P. M.	10 P. M.		3 P. M.	10 P. M.		3 P. M.	10 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 20,	30.20	43.0	50.0	36.0	54	32	00.0	W.	S.		11	7		C.	C.			0.00
Monday, 21,	30.14	53.0	67.0	40.0	43	47	00.0	N. E.	N.W.		13	14		C.	C.			0.00
Tuesday, 22,	30.25	50.0	58.0	43.0	59	47	00.0	S. W.	S. W.		14	12		O.	C.			0.00
Wednes'y, 23,	30.07	58.0	70.0	46.0	59	65	00.0	S. W.	S. W.		11	12		C.	O.			0.00
Thursday, 24,	29.96	65.0	72.0	54.0	85	85	00.0	N. E.	N. E.		14	8		C.	C.			0.01
Friday, 25,	30.12	45.0	43.0	38.0	76	81	00.0	N. E.	E.		17	2		O.	C.			0.08
Saturday, 26,	30.28	41.0	44.0	38.0	60	92	00.0	N. E.	E.		8	16		R.	R.			0.10
Week, - -																		

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, May 3, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING MAY 3, 1890.

Deaths reported to the State Board of Health in 22 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	179	45	7	47	2	..	4
Worcester,	81,622	16	8	2	1	..	..	1
Lowell,	73,370	38	12	5	6	1	3	1
Cambridge,	67,026	22	8	3	2	1	..	1
Fall River,	64,092	26	8	2	6	1	..	..
Lynn,	55,200	12	1	1	2	..	..	1
Springfield,	41,520	16	6	2	4	..	..	..
Lawrence,	41,058	10	5	2	..	2	..	..
New Bedford,	38,218	19	10	1	6	1	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	16	6	1	6	..	1	..
Chelsea,	28,781	12	4	1	2	..	..	1
Haverhill,	27,124	15	4	2	3	..	..	1
Taunton,	25,544	8	1	1	..	..	..	..
Gloucester,	24,904	5	2	1	1	..	..	..
Newton,	22,011	4	1	1	..	..	..	1
Malden,	20,615	6	3	..	..	..	..	..
Waltham,	17,998	7	0	..	1	..	..	..
Fitchburg,	17,304	5	2	1	1	..	1	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	7	5	..	2	..	..	..
Quincy,	14,114	11	4	2	5	..	..	2
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	..	..	..	..	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Medford,	10,688	5	0	..	..	..	..	..
Peabody,	10,397	2	1	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,144,700	441	136	35	95	8	5	13

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 22 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Thirty-five deaths were reported from the principal infectious diseases: diphtheria and croup, 13; diarrhœal diseases, 8; typhoid fever, 5; cerebro-spinal meningitis, 4; erysipelas, 3; whooping-cough and malarial fever, each 1.

No deaths were reported from small pox and puerperal fever.

There were 95 deaths from acute lung diseases; consumption, 59; and still-births, 23.

From cerebro-spinal meningitis: Springfield, Haverhill, Taunton and Gloucester, 1 each. From erysipelas: Boston, Worcester and Cambridge, 1 each. From whooping-cough: Fall River, 1. From malarial fever: Springfield, 1.

Deaths from the principal infectious diseases numbered 35 against 52 for the preceding week.

Deaths under five years of age numbered 136 against 153 for the preceding week.

Cases reported in Boston: scarlet fever, 33; diphtheria, 26; measles, 10; and typhoid fever, 4.

The death-rates for the week were: Boston, 22.26; Worcester, 10.19; Lowell, 26.94; Cambridge, 17.05; Fall River, 21.08; Lynn, 11.30; Springfield, 20.03; Lawrence, 12.66; New Bedford, 25.84; Holyoke, ——, Somerville, ——; Brockton, ——; Salem, 28.44; Chelsea, 21.67; Haverhill, 28.75; Taunton, 16.28; Gloucester, 10.44; Newton, 9.44; Malden, 15.13; Waltham, 20.21; Fitchburg, 15.02; Quincy, 40.52; Northampton, ——; Newburyport, ——; Woburn, ——.

The total death-rate was 20.04 against 20.91 and 20.51 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.			VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, May 3, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	3 A. M.	10 P. M.		MEAN.	8 A. M.	10 P. M.		8 A. M.	10 P. M.		3 P. M.	10 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
April.																			
Sunday, 27,	29.94	42.0	43.0	40.0	92	100		00.0	N. E.	N.		8	6		R.	R.			0.85
Monday, 28,	30.08	46.0	53.0	40.0	78	79		00.0	N.	E.		11	6		O.	F.			0.05
Tuesday, 29,	30.07	52.0	62.0	42.0	68	58		00.0	S. W.	S. W.		5	10		C.	C.			0.00
Wednes'y, 30,	29.88	55.0	67.0	43.0	57	76		00.0	S. W.	S. W.		17	8		C.	C.			0.00
May.																			
Thursday, 1,	29.84	66.0	79.0	52.0	76	88		00.0	S.	N. W.		14	6		C.	R.			0.11
Friday, 2,	30.20	44.0	48.0	39.0	56	53		00.0	N.	S.		12	15		C.	C.			0.00
Saturday, 3,	30.11	52.0	65.0	40.0	73	74		00.0	S.	S. W.		8	15		C.	F.			0.00
Week, - -																			

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, May 10, 1890.

AND

MONTHLY BULLETIN

OF

FOOD AND DRUG INSPECTION

For the Month of April.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING MAY 10, 1890.

Deaths reported to the State Board of Health in 21 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	203	48	21	30	3	2	12
Worcester,	81,622	23	8	2	6	..	..	1
Lowell,	73,370	47	15	7	6	2	1	4
Cambridge,	67,026	18	5	3	2	1	..	1
Fall River,	64,092	19	4	1	1	1	..	..
Lynn,	55,200	16	5	4	1	..	1	3
Springfield,	41,520	21	4	2	3	..	1	..
Lawrence,	41,058	18	7	5	2	..	..	3
New Bedford,	38,218	17	7	2	2	..	..	1
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	14	5	..	3	..	..	..
Chelsea,	28,781	10	3	..	2	..	..	..
Haverhill,	27,124	14	4	4	2	..	..	2
Taunton,	25,544	10	3	..	2	..	..	..
Gloucester,	24,904	5	0	..	1	..	..	..
Newton,	22,011	7	2	..	1	..	..	..
Malden,	20,615	7	2	1	2	..	1	..
Waltham,	17,998	1	0	..	1	..	..	..
Fitchburg,	17,304	..	..	..	..	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	2	1	1	..	..	..	..
Quincy,	14,114	11	6	..	1	..	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	5	0	..	2	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Medford,	10,688	..	..	..	..	..	..	..
Peabody,	10,397	1	1	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,130,623	469	130	53	70	7	6	27

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 21 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty-three deaths were reported from the principal infectious diseases: diphtheria and croup, 27; diarrhœal diseases, 7; typhoid fever, 6; scarlet fever, 6; cerebro-spinal meningitis, 4; measles, erysipelas and puerperal fever, each 1.

No deaths were reported from small pox, malarial fevers and whooping-cough.

There were 70 deaths from consumption; acute lung diseases, 64; and still-births, 17.

From scarlet fever: Boston, 3; Haverhill, 2; Springfield, 1. From cerebro-spinal meningitis: Worcester, Cambridge, Lawrence and Pittsfield, 1 each. From measles, New Bedford, 1. From erysipelas: Boston, 1. From puerperal fever: Lawrence, 1.

Deaths from the principal infectious diseases numbered 53 against 35 for the preceding week.

Deaths under five years of age numbered 130 against 136 for the preceding week.

Cases reported in Boston: diphtheria, 41; scarlet fever, 29; measles, 14; typhoid fever, 12; and small pox, 1.

The death-rates for the week were: Boston, 25.25; Worcester, 14.65; Lowell, 33.31; Cambridge, 13.95; Fall River, 15.41; Lynn, 15.07; Springfield, 26.29; Lawrence, 22.78; New Bedford, 23.12; Holyoke, ——, Somerville, ——; Brockton, ——; Salem, 24.89; Chelsea, 18.06; Haverhill, 26.84; Taunton, 20.35; Gloucester, 10.44; Newton, 16.53; Malden, 17.65; Waltham, 2.88; Fitchburg, ——; Quincy, 40.48; Northampton, ——; Newburyport, 18.60; Woburn, ——.

The total death-rate was 21.59 against 20.04 and 20.91 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.			VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, May 10, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	3 P. M.	10 P. M.		MEAN.	3 P. M.	10 P. M.		3 P. M.	10 P. M.		3 P. M.	10 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 4,	29.94	61.0	72.0	50.0	84	89		00.0	S. W.	S.		9	14		O.	R.			0.81
Monday, 5,	29.71	62.0	72.0	52.0	92	89		00.0	S.	S. W.		14	14		O.	O.			0.01
Tuesday, 6,	29.66	61.0	66.0	57.0	89	94		00.0	S.	S. W.		12	11		O.	R.			0.88
Wednes'y, 7,	30.00	55.0	62.0	48.0	57	55		00.0	W.	S. E.		12	10		F.	O.			0.00
Thursday, 8,	30.01	48.0	51.0	46.0	70	85		00.0	N. E.	N.		13	10		O.	R.			0.04
Friday, 9,	30.08	54.0	67.0	41.0	49	52		00.0	W.	S. W.		17	20		C.	O.			0.25
Saturday, 10,	29.88	66.0	67.0	54.0	61	89		00.0	S. W.	S. W.		23	15		O.	R.			0.05
Week, - -																			

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of April: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk,	145	131	276	Molasses,	56	15	71
Butter,	8	12	20	Honey,	1	..	1
Cheese,	1	..	1	Vinegar,	8	4	12
Lard,	..	..	..	Canned Goods,	1	..	1
Olive Oil,	1	..	1	Tea,	6	..	6
Spices,	63	16	79	Coffee,	1	1	2
Cream of Tartar,	16	2	18	Confectionery,	1	..	1
Syrups,	3	..	3	Other articles of Food and Drinks,	5	1	6
Maple Syrup,	8	7	15	Drugs,	26	3	29
Maple Sugar,	15	7	22	Totals,	365	199	564

Percentage of adulteration, 35.3. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration. The percentage of adulteration of articles of food not including milk was only 25.3. The percentage of samples of milk below the standard of 13 per cent. of solids was 47.5, but 37.3 per cent. of the entire number were found to have between 12 and 13 per cent. of solids, so that the actual number below 12 per cent. was very small.

Twelve complaints were entered in the courts during the month for violation of the statutes relative to Food and Drug Inspection. Four were for illegal sales of butter, three of maple syrup, two of molasses, one of pepper, one of allspice and one of cream of tartar. These cases were entered in the district courts at Lynn, New Bedford, Great Barrington, Holyoke, North Adams, Boston and Lowell. In eleven cases the defendants were convicted, and one case was continued until May 14.

$420 in fines were paid into the treasuries of cities and towns.

The samples of spices examined were Allspice, Cinnamon, Cloves, Cassia, Cayenne, Black and White Pepper, Mace, Ginger, Mustard and Curry Powder.

The samples of food not specified were baking powders, cocoa and vermicelli.

The drugs examined were Jalap, Iodide of Potassium, Sulphate of Quinine, Citrate of Iron and Quinine, Tincture of Opium, Spirits of Nitrous Ether, Compound Spirits of Ether, Subnitrate of Bismuth, Iodoform, Chloral Hydrate, Glycerine, Honey, Tannic Acid, Lycopodium, Arrow Root, Extract of Licorice, and one proprietary preparation (Tauschnitzky's Hair Dye) which was found to contain copper.

The only samples which did not conform to the standard were one each of Jalap, Compound Spirits of Ether, and Spirits of Nitrous Ether.

The adulterated samples of molasses and maple syrup were chiefly mixtures with glucose. Considerable quantities of adulterated molasses have been received at this port in hogsheads upon which the word "compound" has been marked in small, black, indistinct letters upon the dark wood of the hogshead. In some cases it is found that the retailer is made acquainted with this fact, and in others his attention is not called to it by the wholesaler; while the consumer almost invariably purchases under the impression that he obtains a pure article.

The cities and towns from which samples of Food and Drugs were collected during the month were as follows: — Boston, Cambridge, Chelsea, Brockton, Holyoke, Haverhill, Lawrence, Lowell, Somerville, Springfield, Woburn, Worcester, Taunton, Lynn, New Bedford, Pittsfield, Adams, North Adams, Great Barrington, Colrain, Framingham, Stoneham, Weston, Brookline and Westfield.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, May 17, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS.

FOR THE WEEK ENDING MAY 17, 1890.

Deaths reported to the State Board of Health in 22 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Prineipal Infectious Diseases.	Consumption.	Diphtheria and Croup.	Cerebro-Spinal Meningitis.	Scarlet Fever.
Boston,	418,110	186	46	14	31	8	..	1
Worcester,	81,622	30	11	2	3	..	1	..
Lowell,	73,370	30	10	3	4	2	1	..
Cambridge,	67,026	28	8	6	3	..	..	3
Fall River,	64,092	24	9	1	3	..	..	..
Lynn,	55,200	13	4	1	3	1	..	..
Springfield,	41,520	12	1	1	1	..	..	..
Lawrence,	41,058	19	5	2	..	1	..	..
New Bedford,	38,218	19	5	..	1	..	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	18	4	1	..	..	..	..
Chelsea,	28,781	12	1	..	2	..	..	..
Haverhill,	27,124	8	5	3	..	2	..	1
Taunton,	25,544	15	7	4	1	1	3	..
Gloucester,	24,904	5	2	1	2	..	1	..
Newton,	22,011	6	1	..	1	..	..	..
Malden,	20,615	8	3	..	1	..	..	..
Waltham,	17,998	3	0	..	..	..	..	..
Fitchburg,	17,304	10	3	2	3	..	..	2
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	4	0	1	2	..	1	..
Quincy,	14,114	6	1	1	2	1	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	1	0	..	..	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Medford,	10,688	..	..	..	..	..	..	..
Peabody,	10,397	2	1	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diphtheria and Croup.	Cerebro-Spinal Meningitis.	Scarlet Fever.
Total of reporting towns,	1,147,927	459	127	43	63	16	7	7

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 22 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-three deaths were reported from the principal infectious diseases: diphtheria and croup, 16; scarlet fever, 7; cerebro-spinal meningitis, 7; diarrhœal diseases, 6; erysipelas and puerperal fever, each 2; measles, whooping cough and typhoid fever, each 1.

No deaths were reported from small pox and malarial fever.

There were 63 deaths from consumption; acute lung diseases, 63; and still-births, 32.

From diarrhœal diseases: Cambridge, 3; Worcester, Fall River and Springfield, 1 each. From crysiplas: Boston, 2. From puerperal fever: Boston and Lawrence, 1 each. From measles: Boston, 1. From whooping cough: Salem, 1. From typhoid fever: Boston, 1.

Deaths from the principal infectious diseases numbered 43 against 53 for the preceding week.

Deaths under five years of age numbered 127 against 130 for the preceding week.

Cases reported in Boston: measles, 34; diphtheria and scarlatina, each 32; and typhoid fever, 5.

The death-rates for the week were: Boston, 23.13; Worcester, 19.11; Lowell, 21.24; Cambridge, 22.10; Fall River, 18.66; Lynn, 12.24; Springfield, 15.02; Lawrence, 24.05; New Bedford, 25.84; Holyoke, ——, Somerville, ——; Brockton, ——; Salem, 31.00; Chelsea, 21.67; Haverhill, 15.33; Taunton, 30.52; Gloucester, 10.44; Newton, 14.17; Malden, 20.16; Waltham, 6.64; Fitchburg, 30.60; Quincy, 22.08; Northampton, ——; Newburyport, 3.73; Woburn, ——.

The total death-rate for the week was 27.92 against 20.04 and 20.91 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, May 17, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	3 P. M.	10 P. M.	MEAN.	3 P. M.	10 P. M.	3 P. M.	10 P. M.	3 P. M.	10 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 11,	30.13	51.0	56.0	47.0	93	69	00.0	N.	S.E.	10	2	O.	F.		0.23
Monday, 12,	30.10	50.0	57.0	44.0	64	84	00.0	N. E.	S. E.	2	12	C.	C.		0.00
Tuesday, 13,	29.88	58.0	69.0	46.0	72	79	00.0	S.	S. W.	6	18	O.	O.		0.00
Wednes'y, 14,	29.70	66.0	80.0	53.0	84	76	00.0	S. W.	S. W.	12	13	O.	O.		0.01
Thursday, 15,	29.87	63.0	71.0	55.0	85	94	00.0	S.	S. E.	12	5	O.	F.		0.65
Friday, 16,	29.94	64.0	74.0	53.0	84	76	00.0	S. W.	N.W.	9	14	F.	C.		†
Saturday, 17,	29.94	57.0	67.0	47.0	76	75	00.0	S. E.	W.	6	12	C.	R.		†
Week, - -															

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

† Indicates trace of rainfall.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, May 24, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING MAY 24, 1890.

Deaths reported to the State Board of Health in 21 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	178	64	19	22	3	2	8
Worcester,	81,622	16	6	..	3	..	..	..
Lowell,	73,370	30	10	8	4	1	2	3
Cambridge,	67,026	24	6	2	5	1	..	..
Fall River,	64,092	21	9	..	8	..	..	..
Lynn,	55,200	18	8	2	11	..	..	1
Springfield,	41,520	12	7	5	..	..	..	5
Lawrence,	41,058	9	4	..	..	..	..	..
New Bedford,	38,218	21	5	..	3	..	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	7	0	..	1	..	..	..
Chelsea,	28,781	6	5	2	..	..	..	..
Haverhill,	27,124	8	3	4	..	..	..	4
Taunton,	25,544	4	2	..	1	..	..	..
Gloucester,	24,904	6	3	..	..	..	..	..
Newton,	22,011	9	4	..	..	..	..	..
Malden,	20,615	8	4	..	1	..	..	..
Waltham,	17,998	7	1	..	4	..	..	..
Fitchburg,	17,304	5	3	1	..	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	..	..	..	..	..	..	..
Quincy,	14,114	7	3	1	2	..	..	1
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	3	0	..	..	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Medford,	10,688	..	..	..	..	..	..	..
Peabody,	10,397	2	0	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,132,165	401	147	44	65	5	4	22

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 21 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-four deaths were reported from the principal infectious diseases: diphtheria and croup, 22; diarrhœal diseases, 5; typhoid fever, 4; whooping cough, 4; scarlet fever, 4; erysipelas, 3; puerperal fever and measles, each 1.

No deaths were reported from small pox and malarial fevers.

There were 65 deaths from consumption; acute lung diseases, 31; and still-births, 23.

From whooping cough: Boston. 2; Lowell and Lynn, 1 each. From scarlet fever: Boston, Cambridge, Chelsea and Fitchburg, 1 each. From erysipelas: Boston, 2; Chelsea, 1. From puerperal fever: Lowell, 1. From measles: Boston, 1.

Deaths from the principal infectious diseases numbered 44 against 43 for the preceding week.

Deaths under five years of age numbered 147 against 127 for the preceding week.

Cases reported in Boston: diphtheria, 28; measles, 22; scarlet fever, 18; and typhoid fever, 8.

The death-rates for the week were: Boston, 22.26; Worcester, 10.19; Lowell, 21.24; Cambridge, 18.60; Fall River, 17.03; Lynn, 16.95; Springfield, 15.02; Lawrence, 11.39; New Bedford, 28.56; Holyoke, ——, Somerville, ——; Brockton, ——; Salem, 12.44; Chelsea, 10.83; Haverhill, 15.33; Taunton, 8.14; Gloucester, 12.59; Newton, 21.25; Malden, 20.16; Waltham, 20.16; Fitchburg, 15.30; Quincy, 25.76; Northampton, ——; Newburyport, 11.19; Woburn, ——.

The total death-rate for the week was 18.42 against 27.92 and 20.04 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.			VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, May 24, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	3 P. M.	10 P. M.		MEAN.	3 P. M.	10 P. M.		3 P. M.	10 P. M.		3 P. M.	10 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 18,	30.12	55.0	65.0	45.0	63	40		00.0	N.W.	S.		8	12		C.	C.			†
Monday, 19,	29.98	64.0	77.0	51.0	53	80		00.0	S.	S.W.		7	18		C.	F.			†
Tuesday, 20,	29.75	64.0	73.0	55.0	90	88		00.0	S.	W.		18	20		O.	O.			0.28
Wednes'y, 21,	30.21	54.0	62.0	46.0	53	58		00.0	N.W	S. E.		17	5		C.	C.			0.00
Thursday, 22,	30.32	53.0	58.0	48.0	61	70		00.0	N. E.	N. E.		9	17		O.	C.			0.00
Friday, 23,	30.14	49.0	53.0	44.0	67	80		00.0	N. E.	E.		19	4		O.	C.			0.00
Saturday, 24,	30.08	55.0	61.0	50.0	69	82		00.0	S.W.	E.		5	5		O.	C.			0.00
Week, - -																			

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

† Indicates trace of rainfall.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, May 31, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING MAY 31, 1890.

Deaths reported to the State Board of Health in 22 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Typhoid Fever.	Diphtheria and Croup.	Scarlet Fever.
Boston,	418,110	154	54	14	25	1	10	3
Worcester,	81,622	17	5	..	3	..	..	..
Lowell,	73,370	34	17	6	4	5	1	..
Cambridge,	67,026	17	6	2	2	1	1	..
Fall River,	64,092	26	12	4	..	2	1	..
Lynn,	55,200	17	5	2	3	..	2	..
Springfield,	41,520	13	3	2	5	..	1	..
Lawrence,	41,058	16	7	4	1	..	2	..
New Bedford,	38,218	10	1	..	1	..	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	13	2	1	..	..	1	..
Chelsea,	28,781	10	1	..	1	..	..	..
Haverhill,	27,124	14	4	2	3	..	1	..
Taunton,	25,544	9	3	..	2	..	..	..
Gloucester,	24,904	8	4	1	1	..	..	..
Newton,	22,011	0	0	..	..	..	..	..
Malden,	20,615	1	1	..	..	..	..	..
Waltham,	17,998	6	0	..	1	..	..	..
Fitchburg,	17,304	4	1	..	1	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	1	1	..	1	..	..	..
Quincy,	14,114	3	1	1	..	..	1	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	5	1	..	1	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Medford,	10,688	..	..	..	..	..	..	..
Peabody,	10,397	4	1	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Typhoid Fever.	Diphtheria and Croup.	Scarlet Fever.
Total of reporting towns,	1,147,927	382	130	39	55	9	21	3

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 22 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Thirty-nine deaths were reported from the principal infectious diseases: diphtheria and croup, 21; typhoid fever, 9; scarlet fever, 3; diarrhœal diseases, 2; malarial fever, whooping cough, cerebro-spinal meningitis and measles, 1 each

No deaths were reported from small pox and puerperal fever.

There were 55 deaths from consumption; acute lung diseases, 48; and still-births, 26.

From diarrhœal diseases: Fall River and Lawrence, 1 each. From malarial fever: Haverhill, 1. From whooping cough: Lawrence, 1. From cerebro-spinal meningitis: Gloucester, 1. From measles: Springfield, 1.

Deaths from the principal infectious diseases numbered 39 against 44 for the preceding week.

Deaths under five years of age numbered 130 against 147 for the preceding week.

Cases reported in Boston: scarlet fever, 26; diphtheria, 22; measles, 17; and typhoid fever, 8.

The death-rates for the week were: Boston, 19.16; Worcester, 10.82; Lowell, 24.07; Cambridge, 13.17; Fall River, 21.08; Lynn, 16.01; Springfield, 16.27; Lawrence, 20.25; New Bedford, 13.60; Holyoke, ——, Somerville, ——; Brockton, ——; Salem, 23.11; Chelsea, 18.06; Haverhill, 26.83; Taunton, 18.31; Gloucester, 16.70; Newton, ——; Malden, 2.52; Waltham, 17.28; Fitchburg, 12.24; Quincy, 11.04; Northampton, ——; Newburyport, 18.65; Woburn, ——.

The total death-rate for the week was 17.30 against 18.42 and 27.92 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, May 31, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	3 P. M.	10 P. M.	MEAN.	3 P. M.	10 P. M.	3 P. M.	10 P. M.	3 P. M.	10 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 25,	30.27	52.0	56.0	48.0	93	87	90.0	S. E.	S. E.	2	11	C.	C.		0.00
Monday, 26,	30.20	54.0	61.0	48.0	81	75	78.0	S.	S.	11	15	O.	R.		0.01
Tuesday, 27,	30.03	58.0	63.0	54.0	94	100	97.0	S.	N.	12	7	R.	R.		1.02
Wednes'y, 28,	28.79	61.0	70.0	52.0	66	73	69.0	N.	N.	14	16	C.	O.		0.11
Thursday, 29,	29.99	55.0	60.0	50.0	63	72	67.0	N.	S. W.	12	6	O.	O.		0.00
Friday, 30,	29.91	56.0	62.0	50.0	73	66	69.0	N. E.	S. W.	5	10	C.	F.		0.00
Saturday, 31,	29.79	63.0	77.0	49.0	46	40	43.0	W.	N. E.	5	14	C.	C.		†
Week, - -															

* O., Cloudy: C., Clear: F., Fair: G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

† Indicates trace of rainfall.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, June 7, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

FOR THE WEEK ENDING JUNE 7, 1890.

Deaths reported to the State Board of Health in 21 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	155	41	10	24	3	..	4
Worcester,	81,622	14	8	1	2	1	..	..
Lowell,	73,370	28	10	6	3	2	3	..
Cambridge,	67,026	20	4	1	5	1	..	..
Fall River,	64,092	25	9	3	6	..	1	2
Lynn,	55,200	23	..	5	4	1	..	3
Lawrence,	41,510	..	..	..	..	..	..	..
Springfield,	41,058	21	8	4	..	..	1	1
New Bedford,	38,218	9	5	1	..	1	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	9	2	1	1	1	..	..
Chelsea,	28,781	12	1	..	..	..	..	..
Haverhill,	27,124	9	3	2	2	..	..	1
Taunton,	25,544	8	1	..	1	..	..	..
Gloucester,	24,904	7	2	..	2	..	..	..
Newton,	22,011	2	1	..	1	..	..	..
Malden,	20,615	5	1	1	..	..	1	..
Waltham,	17,998	3	1	1	1	..	..	..
Fitchburg,	17,304	5	1	..	1	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	3	0	..	1	..	..	..
Quincy,	14,114	2	1	1	..	..	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	4	0	1	1	..	..	1
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Medford,	10,688	..	..	..	..	..	..	..
Peabody,	10,397	4	0	..	2	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,106,407	368	99	38	57	10	6	12

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 21 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Thirty-eight deaths were reported from the principal infectious diseases: diphtheria and croup, 12; diarrhœal diseases, 10; typhoid fever, 6; measles, 3; whooping cough, 3; cerebro-spinal meningitis, 2; scarlet fever, and erysipelas, 1 each.

No deaths were reported from small pox, malarial fever and puerperal fever.

There were 57 deaths from consumption; acute lung diseases, 37; and still-births, 29.

From measles: Boston, 3. From whooping cough: Lowell, Lawrence and Waltham, 1 each. From cerebro-spinal meningitis: Lynn and Quincy, each 1. From scarlet fever: Haverhill, 1. From erysipelas, Lawrence, 1.

Deaths from the principal infectious diseases numbered 38 against 39 for the preceding week.

Deaths under five years of age numbered 99 against 130 for the preceding week.

Cases reported in Boston: measles, 40; diphtheria, 24; scarlet fever, 20; and typhoid fever, 9.

The death-rates for the week were: Boston, 19.28; Worcester, 8.91; Lowell, 19.82; Cambridge, 15.50; Fall River, 20.27; Lynn, 21.66; Springfield, —— ; Lawrence, 26.58; New Bedford, 12.24; Holyoke, ——, Somerville, ——; Brockton, ——; Salem, 16.00; Chelsea, 21.67; Haverhill, 17.25; Taunton, 16.28; Gloucester, 14.61; Newton, 4.72; Malden, 12.60; Waltham, 8.64; Fitchburg, 15.30; Quincy, 7.36; Northampton, ——; Newburyport, 14.92; Woburn, ——.

The total death-rate for the week was 17.21 against 17.30 and 18.42 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, June 7, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	3 P. M.	10 P. M.	MEAN.	3 P. M.	10 P. M.	3 P. M.	10 P. M.	3 P. M.	10 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 1,	29.86	66.0	80.0	52.0	52	35	00.0	W.	N.W.	6	8	C.	C.		0.00
Monday, 2,	29.96	65.0	73.0	58.0	35	32	00.0	N.W.	N.W.	20	16	O.	O.		0.00
Tuesday, 3,	30.13	62.0	73.0	52.0	38	53	00.0	N.W.	S.W.	7	13	C.	O.		0.00
Wednes'y, 4,	30.04	59.0	65.0	54.0	88	86	00.0	S.E.	N.	5	9	R.	R.		0.26
Thursday, 5,	30.05	54.0	56.0	52.0	94	91	00.0	N.E.	N.	7	14	O.	R.		†
Friday, 6,	29.98	54.0	55.0	53.0	85	94	00.0	E.	E.	10	8	O.	R.		0.14
Saturday, 7,	29.83	66.0	80.0	52.0	88	62	00.0	N.W.	W.	3	13	O.	O.		0.33
Week, - -															

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

† Indicates trace of rainfall.

MONTHLY MORTALITY

In the smaller towns of Massachusetts as reported to the State Board of Health for the month of May.

The total death-rate of reporting towns for the month was 15.38.

TOWNS.	Estimated Population.	Reported Deaths in each.	Deaths under five years of age.	Deaths from				
				Infectious Diseases.	Acute Lung Diseases.	Consumption.	Diphtheria and Croup.	Erysipelas.
Hyde Park,	9,741	..	..	..	..	..	..	..
Plymouth,	7,731	..	..	..	..	..	..	..
Everett,	7,557	6	2	..	1	..	..	..
Wakefield,	6,463	..	..	..	..	..	..	..
Andover,	6,054	8	1	..	..	3	..	..
Stoneham,	6,035	5	0	1	..	1	1	..
Winchester,	5,303	6	0	..	1	1	..	..
Middleborough,	5,233	12	2	..	1	2	..	..
Arlington,	5,066	..	..	..	..	..	..	..
Westborough,	4,880	9	0	1	2	..	1	..
West Springfield,	4,868	..	..	..	..	..	..	..
Provincetown,	4,543	..	..	..	..	..	..	..
Concord,	4,457	6	0	..	..	..	..	..
Whitman,	4,429	..	..	..	..	..	..	..
Hingham,	4,375	3	0	1	..	..	..	..
Amherst,	4,337	..	..	..	..	..	..	..
Braintree,	4,188	..	..	..	..	..	..	..
Hudson,	4,185	1	0	..	..	1	..	..
Revere,	3,981	..	..	..	..	..	..	..
Randolph,	3,801	16	3	1	1	2	1	..
Northbridge,	3,786	..	..	..	..	..	..	..
No. Andover,	3,680	..	..	..	..	..	..	..
Bradford,	3,608	2	0	..	1	..	..	..
Nantucket,	3,142	..	..	..	..	..	..	..
Mansfield,	3,094	..	..	..	..	..	..	..
Leicester,	3,003	3	0	..	..	2	..	..
Fairhaven,	2,937	3	0	..	1	..	..	..
Wrentham,	2,892	3	0	..	..	1	..	..
Swampscott,	2,670	2	1	1	..	..	..	1
Merrimac,	2,492	5	1	..	1	1	..	..
Agawam,	2,441	3	0	..	..	..	..	..
Dalton,	2,325	2	1	1	..	..	..	..
Chelmsford,	2,304	..	..	..	..	..	..	..
Cohasset,	2,226	..	..	..	..	..	..	..
Northborough,	2,163	..	..	..	..	..	..	..
Ashburnham,	2,058	..	..	..	..	..	..	..
Groton,	2,037	1	0	..	..	..	..	..
Longmeadow,	1,797	2	2	..	1	..	..	..
Norton,	1,718	2	0	2	..	..	..	2
Conway,	1,573	1	0	..	..	..	..	..
Shrewsbury,	1,450	2	0	..	..	..	..	..
Huntington,	1,366	..	..	..	..	..	..	..
Topsfield,	1,141	3	0	..	..	1	..	..
Truro,	972	0	0	..	..	..	..	..
Bolton,	876	..	..	..	..	..	..	..
Burlington,	604	1	0	..	..	..	..	..
Heath,	575	..	..	..	..	..	..	..
Wendell,	545	..	..	..	..	..	..	..
Total of reporting towns,	81,083	107	13	8	10	15	3	3

Weekly Return of Mortality

— OF —

MASSACHUSETTS

FOR THE

Week ending Saturday, June 14, 1890,

AND

MONTHLY BULLETIN

OF

FOOD AND DRUG INSPECTION

For the Month of May.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending June 14, 1890.

Deaths reported to the State Board of Health in 21 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-Spinal Meningitis.
Boston,	418,110	175	53	18	29	1	10	1
Worcester,	81,622	16	2	2	4	..	1	1
Lowell,	73,370	20	7	2	6	2	..	..
Cambridge,	67,026	20	5	2	5	1	1	..
Fall River,	64,092	24	6	3	5	1	..	1
Lynn,	55,200	17	4	..	4	..	..	..
Lawrence,	41,510	19	6	3	..	..	..	1
Springfield,	41,058	18	3	1	5	..	1	..
New Bedford,	38,218	13	1	..	2	..	1	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	15	4	1	3	..	..	1
Chelsea,	28,781	9	2	1	3	..	..	..
Haverhill,	27,124	7	3	2	..	..	2	..
Taunton,	25,544	..	..	..	..	..	..	..
Gloucester,	24,904	4	1	1	..	..	1	..
Newton,	22,011	7	1	..	..	..	..	..
Malden,	20,615	8	1	2	..	..	..	..
Waltham,	17,998	2	0	..	..	..	..	..
Fitchburg,	17,304	5	2	2	..	..	..	1
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	3	2	..	..	..	..	..
Quincy,	14,114	4	3	1	..	..	..	1
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	5	2	..	1	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Medford,	10,688	..	..	..	..	..	..	..
Peabody,	10,397	2	0	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-Spinal Meningitis.
Total of reporting towns,	1,122,373	393	108	41	67	5	17	7

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 21 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-one deaths were reported from the principal infectious diseases: diphtheria and croup, 17; cerebro-spinal meningitis, 7; diarrhœal diseases, 5; measles, 3; whooping cough, 3; scarlet fever and puerperal fever, each 2; typhoid fever and small pox, each 1.

No deaths were reported from malarial fever and erysipelas.

There were 67 deaths from consumption; acute lung diseases, 30; and still-births, 15.

From measles: Boston, 3. From whooping cough: Boston, Fall River and Springfield, 1 each. From scarlet fever: Boston and Fitchburg, 1 each. From puerperal fever: Malden, 2. From typhoid fever: Boston, 1. From small pox: Chelsea, 1.

Deaths from the principal infectious diseases numbered 41 against 38 for the preceding week.

Deaths under five years of age numbered 108 against 99 for the preceding week.

Cases reported in Boston: measles, 52; diphtheria, 24; scarlet fever, 20; and typhoid fever, 8.

The death-rates for the week were: Boston, 21.97; Worcester, 10.19; Lowell, 14.16; Cambridge, 15.50; Fall River, 19.46; Lynn, 16.01; Springfield, 23.78; Lawrence, 22.78; New Bedford, 17.68; Holyoke, —— ; Somerville, —— ; Brockton, —— ; Salem, 26.67; Chelsea, —— ; Haverhill, 13.42; Taunton, —— ; Gloucester, 8.35; Newton, 16.53; Malden, 20.16; Waltham, 5.76; Fitchburg, 14.40; Quincy, 14.72; Northampton, —— ; Newburyport, 18.65; Woburn, ——.

The total death-rate for the week was 18.20 against 17.21 and 17.30 for the two previous weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, June 14, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	3 P. M.	10 P. M.	MEAN.	3 P. M.	10 P. M.	3 P. M.	10 P. M.	3 P. M.	10 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 8,	30.20	66.5	80.0	53.0	36	45	00.0	N.W.	S.W.	24	12	C.	C.		0.00
Monday, 9,	30.18	63.7	71.4	56.0	46	27	00.0	W.	N.W.	24	11	C.	C.		0.00
Tuesday, 10,	30.17	65.5	78.8	52.1	52	58	00.0	W.	W.	8	10	C.	F.		0.00
Wednes'y, 11,	29.91	71.3	78.0	64.5	71	81	00.0	S.W.	S.	10	12	O.	O.	4.45-6.30	0.20
Thursday, 12,	30.00	69.0	86.0	52.0	97	97	00.0	N.E.	N.E.	10	18	R.	R.	7.10 a.m.	0.13
Friday, 13,	29.94	52.3	54.7	49.9	100	97	00.0	N.	N.	12	10	R.	R.	.....	0.64
Saturday, 14,	29.97	53.1	55.2	51.0	88	86	00.0	N.W.	E.	4	6	O.	C.	8.15 p.m.	0.03
Week, - -															

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of May: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk,	355	60	415	Maple Syrup,	3	1	4
Butter,	5	2	7	Canned Goods,	..	..	..
Cheese,	..	..	..	Honey,	1	..	1
Lard,	1	..	1	Tea,	2	..	2
Olive Oil,	..	1	1	Coffee,	4	..	4
Vinegar,	15	3	18	Cocoa,	1	..	1
Spices,	71	7	78	Confectionery,	4	..	4
Cream of Tartar,	20	2	22	Other articles of Food and Drinks,	12	..	12
Molasses,	90	14	104	Drugs,	34	3	37
Syrups,	..	..	..				
Maple Sugar,	10	4	14	Totals,	628	97	725

Percentage of adulteration, 13.4. The actual ratio of adulteration is less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration. The marked decrease in the percentage of adulteration in the month of May is due to the fact that the standard of milk in May and June requires but 12 per cent. of total solids instead of 13 per cent. Out of the whole number of samples of milk obtained in May 43 per cent. had between 12 and 13 per cent. of solids. A considerable share of the work of the month was devoted to the inspection of molasses; 14 samples out of 104 were found adulterated with glucose.

Seven complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs. One for illegal sale of milk, two of molasses, two of maple syrup, one of mustard and one of butter. All of the defendants were convicted.

The samples of drugs examined were Tincture of Opium, Dover's Powder, Sulphate of Quinine, Citrate of Iron and Quinine, Jalap, Compound Spirits of Ether, Spirits of Nitrous Ether, Iodoform, Chloral, Iodide of Potassium, Diluted Hydrobromic Acid, Tannic Acid, Solution of Citrate of Magnesia, Lemon Juice, Honey, Glycerine, Subnitrate of Bismuth, and Cinnamon.

The adulterated articles were Compound Spirits of Ether and Iodide of Potassium.

The cities and towns from which samples of food and drugs were collected were as follows: Boston, Cambridge, Lawrence, Waltham, Woburn, Springfield, Lowell, Lynn, Chelsea, Haverhill, Salem, Newton, Newburyport, Fall River, Quincy, Chicopee, Dedham, Revere, Hyde Park, Westborough, Weymouth, Northampton, Clinton, Randolph, Winchester, Danvers, Peabody, Ware, Pittsfield, Adams, Lee, Abington, Marlborough, Natick, Plymouth, Sudbury, Wayland and Weston.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, June 21, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending June 21, 1890.

Deaths reported to the State Board of Health in 22 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Typhoid Fever.
Boston,	418,110	166	41	16	22	4	7	3
Worcester,	81,622	26	8	3	4	..	..	..
Lowell,	73,370	32	12	8	4	2	1	3
Cambridge,	67,026	19	8	1	2	..	1	..
Fall River,	64,092	17	5	4	3	4	..	..
Lynn,	55,200	9	1	1	1	..	..	1
Lawrence,	41,510	8	1	1	1	..	1	..
Springfield,	41,058	19	6	3	4	..	1	..
New Bedford,	38,218	11	5	1	1	1	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	8	5	2	2	..	1	..
Chelsea,	28,781	5	2	..	..	..	..	..
Haverhill,	27,124	9	6	2	1	1	1	..
Taunton,	25,544	4	1	1	..	..	..	..
Gloucester,	24,904	3	0	..	1	..	..	..
Newton,	22,011	4	0	..	1	..	..	..
Malden,	20,615	5	0	1	..	..	1	..
Waltham,	17,998	4	1	..	..	..	..	..
Fitchburg,	17,304	5	3	1	..	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	2	0	..	..	..	..	..
Quincy,	14,114	5	1	..	2	..	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	4	1	1	..	..	..	1
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Medford,	10,688	..	..	..	..	..	..	..
Peabody,	10,397	2	0	1	..	1	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Typhoid Fever.
Total of reporting towns,	1,167,927	367	107	47	49	13	14	8

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 22 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-seven deaths were reported from the principal infectious diseases: diphtheria and croup, 14; diarrhœal diseases, 13; typhoid fever, 8; cerebro-spinal meningitis, 4; whooping cough, 3; scarlet fever, 2; measles, erysipelas and puerperal fever, each 1.

No deaths were reported from small pox and malarial fevers.

There were 49 deaths from consumption; acute lung diseases, 39; and still-births, 32.

From cerebro-spinal meningitis: Boston, Worcester, Taunton and Fitchburg, 1 each. From whooping cough: Boston, Lowell and Salem, 1 each. From scarlet fever: Worcester, 2. From measles: Lawrence, 1. From puerperal fever: Lowell, 1. From erysipelas: Lawrence, 1.

Deaths from the principal infectious diseases numbered 47 against 41 for the preceding week.

Deaths under five years of age numbered 107 against 108 for the preceding week.

Cases reported in Boston: measles, 77; diphtheria, 24; scarlet fever, 21; and typhoid fever, 9.

The death-rates for the week were: Boston, 20.65; Worcester, 16.56; Lowell, 22.65; Cambridge, 14.72; Fall River, 13.78; Lynn, 8.47; Springfield, 10.01; Lawrence, 24.05; New Bedford, 14.96; Holyoke, ——; Somerville, ——; Brockton, ——; Salem, 14.22; Chelsea, 9.03; Haverhill, 17.25; Taunton, 8.14; Gloucester, 6.26; Newton, 9.44; Malden, 12.60; Waltham, 11.52; Fitchburg, 15.30; Quincy, 18.40; Northampton, ——; Newburyport, 14.92; Woburn, ——.

The total death-rate for the week was 16.34 against 18.20 and 17.21 for the two previous weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, June 21, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 15,	30.10	58.0	61.0	56.0	83	89	00.0	N. E.	N. E.	12	12	O.	C.		0.00
Monday, 16,	30.26	64.0	75.0	52.0	91	71	00.0	S. W.	S.W.	2	12	O.	C.		0.00
Tuesday, 17,	30.11	68.0	79.0	56.0	84	77	00.0	W.	S.W.	13	18	O.	C.		0.00
Wednes'y, 18,	29.88	76.0	87.0	64.0	72	44	00.0	W.	W.	12	11	O.	C.		0.00
Thursday, 19,	29.88	70.0	79.0	62.0	47	75	00.0	N.W.	N. E.	13	5	C.	F.		0.00
Friday, 20,	30.16	61.0	67.0	56.0	58	72	00.0	N. E.	S.	8	11	C.	C.		0.00
Saturday, 21,	30.06	64.0	71.0	57.0	72	61	00.0	S.W.	S.W.	12	9	O.	O.		0.00
Week, - -															

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, June 28, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending June 28, 1890.

Deaths reported to the State Board of Health in 21 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-Spinal Meningitis.
Boston,	418,110	140	49	23	24	3	15	..
Worcester,	81,622	25	11	4	2	..	..	4
Lowell,	73,370	30	11	4	4	4	..	..
Cambridge,	67,026	22	8	2	3	1	..	..
Fall River,	64,092	28	18	8	5	7	..	1
Lynn,	55,200	5	5	..	3	..	..	..
Lawrence,	41,510	..	..	..	..	..	..	..
Springfield,	41,058	17	7	2	4	..	..	..
New Bedford,	38,218	15	1	1	4	..	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	9	3	..	1	..	..	..
Chelsea,	28,781	9	1	3	2	1	1	..
Haverhill,	27,124	4	2	2	..	1	..	..
Taunton,	25,544	4	1	..	1	..	..	..
Gloucester,	24,904	5	0	2	..	..	..	2
Newton,	22,011	3	1	..	..	..	..	..
Malden,	20,615	11	5	..	2	..	..	..
Waltham,	17,998	3	1	..	1	..	..	..
Fitchburg,	17,304	3	0	..	..	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	2	0	..	1	..	..	..
Quincy,	14,114	6	2	2	1	..	..	1
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	2	0	..	1	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Medford,	10,688	..	..	..	..	..	..	..
Peabody,	10,397	6	1	..	2	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-Spinal Meningitis.
Total of reporting towns,	1,106,407	349	127	53	61	17	16	8

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 21 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty-three deaths were reported from the principal infectious diseases: diarrhœal diseases, 17; diphtheria and croup, 16; cerebro-spinal meningitis, 8; typhoid fever, 6; measles, 2; malarial fever, erysipelas, whooping cough and scarlet fever, 1 each.

No deaths were reported from small pox and puerperal fever.

There were 61 deaths from consumption; acute lung diseases, 27; and still-births, 32.

From typhoid fever: Boston, Cambridge, Lawrence, New Bedford, Chelsea and Quincy, 1 each. From measles: Boston and Lawrence, 1 each. From malarial fever: Haverhill, 1. From erysipelas: Boston, 1. From whooping cough: Boston, 1. From scarlet fever: Boston, 1.

Deaths from the principal infectious diseases numbered 53 against 47 for the preceding week.

Deaths under five years of age numbered 127 against 107 for the preceding week.

Cases reported in Boston: measles, 68; diphtheria, 26; scarlet fever, 12; and typhoid fever, 9.

The death-rates for the week were: Boston, 14.71; Worcester, 15.92; Lowell, 21.24; Cambridge, 17.05; Fall River, 22.70; Lynn, 4.71; Springfield, —— ; Lawrence, 21.52; New Bedford, 20.40; Holyoke, —— ; Somerville, ——; Brockton, ——; Salem, 16.00; Chelsea, 16.25; Haverhill, 7.66; Taunton, 8.14; Gloucester, 10.44; Newton, 7.08; Malden, 27.72; Waltham, 8.64; Fitchburg, 9.18; Quincy, 22.08; Northampton, —— ; Newburyport, 7.46; Woburn, ——.

The total death-rate for the week was 16.40 against 16.34 and 18.20 for the two previous weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, June 28, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 22,	29.98	59.0	63.0	56.0	81	83	82.0	E.	E.	8	12	F.	O.		0.00
Monday, 23,	30.08	58.0	62.0	54.0	69	86	77.0	N.W.	E.	5	10	C.	O.		0.00
Tuesday, 24,	29.96	71.0	81.0	59.0	85	86	85.0	N.W.	S.W.	6	9	O.	O.		0.00
Wednes'y, 25,	29.75	75.0	86.0	65.0	86	46	66.0	S.W.	W.	12	12	O.	C.		0.13
Thursday, 26,	29.72	73.0	81.0	65.0	53	65	59.0	N.W.	N.	24	10	C.	F.		0.00
Friday, 27,	29.81	67.0	71.0	62.0	65	67	66.0	N. E.	S.W.	10	5	O.	O.		T.
Saturday, 28,	29.79	67.0	75.0	60.0	55	81	68.0	N.W.	E.	12	12	C.	C.		0.00
Week, - -															

* O., Cloudy: C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, July 5, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending July 5, 1890.

Deaths reported to the State Board of Health in 21 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	146	52	14	23	1	1	7
Worcester,	81,622	19	7	4	3	3	..	..
Lowell,	73,370	40	22	17	2	12	3	1
Cambridge,	67,026	16	7	3	6	1	..	..
Fall River,	64,092	19	13	11	2	9	..	1
Lynn,	55,200	..	4	2	2	..	..	1
Springfield,	41,520	21	6	6	3	1	..	4
Lawrence,	41,058	29	14	7	6	5	1	..
New Bedford,	38,218	13	4	2	1	1	1	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	18	3	2	1	1	..	1
Chelsea,	28,781	6	2	..	..	..	..	..
Haverhill,	27,124	11	3	1	..	1	..	..
Taunton,	25,544	5	0	2	1	1	1	..
Gloucester,	24,904	6	1	1	2	..	..	..
Newton,	22,011	5	2	..	..	..	..	..
Malden,	20,615	8	1	..	..	..	..	..
Waltham,	17,998	1	0	..	..	..	..	..
Fitchburg,	17,304	5	3	..	2	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	3	2	1	..	..	..	1
Quincy,	14,114	4	2	2	..	..	..	1
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	5	1	..	1	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	2	0	..	1	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup
Total of reporting towns,	1,147,927	382	149	75	56	36	7	17

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 21 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Seventy-five deaths were reported from the principal infectious diseases: diarrhœal diseases, 36; diphtheria and croup, 17; typhoid fever, 7; whooping-cough, 7; cerebro-spinal meningitis, 4; scarlet-fever, 3; measles, 1.

No deaths were reported from small-pox, malarial fevers and puerperal fever.

There were 56 deaths from consumption; acute lung diseases, 33; and still-births, 24.

From whooping-cough: Boston and Cambridge, 2 each; Lowell, Lawrence and Quincy, 1 each. From cerebro-spinal meningitis: Boston, Fall River, Lynn and Gloucester, 1 each. From scarlet-fever: Boston, Worcester and Springfield, 1 each. From measles: Boston, 1.

Deaths from the principal infectious diseases numbered 75 against 53 for the preceding week.

Deaths under five years of age numbered 149 against 127 for the preceding week.

Cases reported in Boston: measles, 57; diphtheria, 22; scarlet-fever, 10; and typhoid fever, 4.

The death-rates for the week were: Boston, 18.15; Worcester, 12.10; Lowell, 28.32; Cambridge, 12.40; Fall River, 15.40; Lynn, ——; Lawrence, 36.71; Springfield, 26.29; New Bedford, 17.68; Holyoke, ——; Somerville, ——; Brockton,——; Salem, 32.00; Chelsea, 10.83; Haverhill, 21.08; Taunton, 10.17; Gloucester, 12.52; Newton, 11.81; Malden, 20.16; Waltham, 2.88; Fitchburg, 15.20; Quincy, 14.72; Northampton, ——; Newburyport, 11.81; Woburn, ——.

The total death-rate for the week was 17.30 against 16.40 and 16.34 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, July 5, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
June															
Sunday, 29,	29.89	64.0	73.0	56.0	58	66	62.0	N. E.	S.W.	4	14	C.	F.		0.00
Monday, 30,	29.91	72.0	86.0	58.0	65	74	70.0	W.	S.W.	5	12	C.	C.		0.00
July															
Tuesday, 1,	29.98	70.0	74.0	67.0	69	81	75.0	N. E.	E.	8	6	C.	O.		0.00
Wednes'y, 2,	29.96	70.0	77.0	63.0	85	86	85.0	S.	S.	4	12	O.	O.		0.00
Thursday, 3,	29.82	71.0	77.0	66.0	83	77	80.0	S.	S.	12	15	O.	O.		0.03
Friday, 4,	29.79	74.0	80.0	68.0	82	80	81.0	S.	S.	6	10	O.	O.		0.05
Saturday, 5,	29.96	76.0	83.0	70.0	57	53	55.0	N.W.	N.W.	5	5	C.	C.		T.
Week, - -															

* O., Cloudy: C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In the 19 smaller towns of Massachusetts as reported to the State Board of Health for the month of June.

The total death-rate of reporting towns for the month was 13.06.

TOWNS.	Estimated Population.	Reported Deaths in each.	Deaths under five years of age.	Deaths from				
				Infectious Diseases.	Consumption.	Acute Lung Diseases	Typhoid Fever.	Diphtheria and Croup.
Hyde Park,	9,741	..	..	..	..	..	..	..
Plymouth,	7,731	..	..	..	..	..	..	..
Everett,	7,557	..	..	..	..	..	..	..
Wakefield,	6,463	..	..	..	..	..	..	..
Andover,	6,054	4	2	..	..	..	..	..
Stoneham,	6,035	1	0	..	..	..	..	..
Winchester,	5,303	..	..	..	..	..	..	..
Middleborough,	5,233	6	0	..	1	1	..	..
Arlington,	5,066	..	..	..	..	..	..	..
Westborough,	4,880	4	0	..	1	..	..	..
West Springfield,	4,868	..	..	..	..	..	..	..
Provincetown,	4,543	..	..	..	..	..	..	..
Concord,	4,457	2	0	..	..	..	..	..
Whitman,	4,429	..	..	..	..	..	..	..
Hingham,	4,375	7	0	..	..	..	..	..
Amherst,	4,337	..	..	..	..	..	..	..
Braintree,	4,188	..	..	..	..	..	..	..
Hudson,	4,185	14	4	1	3	..	..	..
Revere,	3,981	..	..	..	..	..	..	..
Randolph,	3,807	2	0	..	..	..	..	..
Northbridge,	3,786	..	..	..	..	..	..	..
No. Andover,	3,680	..	..	..	..	..	..	..
Bradford,	3,608	..	..	..	..	..	..	..
Nantucket,	3,142	..	..	..	..	..	..	..
Mansfield,	3,094	..	..	..	..	..	..	..
Leicester,	3,003	..	..	..	..	..	..	..
Fairhaven,	2,937	..	..	..	..	..	..	..
Wrentham,	2,892	1	..	..	..	1	..	..
Swampscott,	2,670	7	1	1	..	1	1	..
Merrimac,	2,492	2	2	..	..	1	..	..
Agawam,	2,441	1	0	..	1	..	..	..
Dalton,	2,325	2	2	..	..	..	..	..
Chelmsford,	2,304	..	..	..	..	..	..	..
Cohasset,	2,226	..	..	..	..	..	..	..
Northborough,	2,163	..	..	..	..	..	..	..
Ashburnham,	2,058	..	..	..	..	..	..	..
Groton,	2,037	2	0	..	..	..	..	..
Longmeadow,	1,797	..	..	..	..	..	..	..
Norton,	1,718	3	0	..	..	1	..	..
Conway,	1,573	..	..	..	..	..	..	..
Shrewsbury,	1,450	1	0	..	..	..	..	..
Huntington,	1,366	..	..	..	..	..	..	..
Topsfield,	1,141	5	0	1	1	..	..	1
Truro,	972	0	0	..	..	..	..	..
Bolton,	876	..	..	..	..	..	..	..
Burlington,	604	..	..	..	..	..	..	..
Heath,	575	1	..	..	..	..	..	..
Wendell,	545	..	..	..	..	..	..	..
Total of reporting towns,	59,734	65	11	3	7	5	1	1

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, July 12, 1890,

AND

MONTHLY BULLETIN

OF

FOOD AND DRUG INSPECTION

For the Month of June.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending July 12, 1890.

Deaths reported to the State Board of Health in 21 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Whooping-Cough.	Diphtheria and Croup.
Boston,	418,110	194	79	42	27	30	3	6
Worcester,	81,622	31	16	7	5	6	..	..
Lowell,	73,370	41	25	15	4	13	..	..
Cambridge,	67,026	29	13	8	3	7	..	..
Fall River,	64,092	56	42	37	4	34	1	2
Lynn,	55,200	29	4	1	4	..	..	..
Springfield,	41,520	17	9	4	3	4	..	..
Lawrence,	41,058	30	17	11	2	6	1	4
New Bedford,	38,218	20	8	4	3	4	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	15	6	2	1	1	1	..
Chelsea,	28,781	10	2	..	2	..	..	..
Haverhill,	27,124	9	5	5	..	4	..	..
Taunton,	25,544	5	3	2	..	1	1	..
Gloucester,	24,904	7	1	..	..	..	..	..
Newton,	22,011	..	..	..	..	..	..	..
Malden,	20,615	5	1	..	1	..	..	..
Waltham,	17,998	2	0	..	..	..	..	..
Fitchburg,	17,304	3	0	..	..	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	3	3	2	..	..	..	2
Quincy,	14,114	5	1	..	1	..	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	7	1	3	..	..	..	3
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	3	2	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Whooping Cough.	Diphtheria and Croup.
Total of reporting towns,	1,125,916	521	238	143	60	110	7	17

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 21 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

One hundred and forty-three deaths were reported from the principal infectious diseases: diarrhœal diseases, 110; diphtheria and croup, 17; whooping-cough, 7; typhoid fever, 3; erysipelas, 2; cerebro-spinal meningitis, 2; measles, 1; scarlet-fever, 1.

No deaths were reported from small-pox, malarial fevers and puerperal fever.

There were 60 deaths from consumption; acute lung diseases, 27; and still-births, 30.

From typhoid fever: Boston, Lowell and Haverhill, 1 each. From erysipelas: Boston and Lowell, each 1. From cerebro-spinal meningitis: Worcester and Cambridge, 1 each. From measles: Boston, 1. From scarlet-fever: Lynn, 1.

Deaths from the principal infectious diseases numbered 143 against 75 for the preceding week.

Deaths under five years of age numbered 238 against 149 for the preceding week.

Cases reported in Boston: measles, 63; scarlet-fever, 21; typhoid fever, 15; and diphtheria, 14.

The death-rates for the week were: Boston, 24.13; Worcester, 19.74; Lowell, 29.05; Cambridge, 22.47; Fall River, 45.41; Lynn, 27.31; Springfield, 21.28; Lawrence, 37.98; New Bedford, 27.20; Holyoke, ——; Somerville, ——; Brockton,——; Salem, 26.67; Chelsea, 18.06; Haverhill, 17.25; Taunton, 10.17; Gloucester, 14.62; Newton, —— ; Malden, 12.61; Waltham, 5.77; Fitchburg, 9.01; Quincy, 18.40; Northampton, —— ; Newburyport, 26.04; Woburn, ——.

The total death-rate for the week was 24.06 against 17.30 and 16.40 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.			VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, July 12, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.		MEAN.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 6,	30.06	66.5	76.0	59.0	57	64		60.5	N.W.	S.		5	10		C.	C.			0.00
Monday, 7,	30.04	72.0	82.0	62.0	53	63		68.0	W.	S.W.		3	16		C.	F.			0.00
Tuesday, 8,	29.80	79.5	92.0	67.0	71	71		71.0	S.W.	E.		12	18		O.	C.			0.00
Wednes'y, 9,	29.76	74.0	83.0	65.0	44	44		44.0	W.	N.		21	24		F.	C.			0.00
Thursday, 10,	30.06	61.5	70.0	53.0	53	51		52.0	N.W.	N.		10	12		C.	O.			0.00
Friday, 11,	30.21	61.0	68.0	54.0	55	84		70.0	N.E.	E.		9	4		C.	C.			0.00
Saturday, 12,	30.14	63.5	72.0	55.0	57	52		54.0	N.W.	S.W.		7	12		C.	O.			0.00
Week, - -																			

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of June: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk,	202	48	250	Maple Syrup,	2	..	2
Butter,	7	2	9	Canned Goods,	..	..	..
Cheese,	2	..	2	Honey,	..	..	..
Lard,	2	..	2	Tea,	4	..	4
Olive Oil,	1	1	2	Coffee,	2	..	2
Vinegar,	9	2	11	Cocoa,	1	..	1
Spices,	54	13	67	Confectionery,	2	..	2
Cream of Tartar,	17	4	21	Other articles of Food and Drinks,	3	..	3
Molasses,	38	16	54	Drugs,	27	6	33
Syrups,	..	..	..				
Maple Sugar,	..	..	..	Totals,	373	92	465

Percentage of adulteration, 19.8. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The legal standard of milk for the months of May and June is reduced to 12 per cent. of solids. Of all the samples of commercial milk obtained during the month of June 39 per cent. had between 12 and 13 per cent. of milk solids, which accounts largely for the low percentage of milk below the standard.

Eighteen complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs. Of these three were for violation of the statutes relative to the sale of milk, three of butter, eleven of molasses and one of mustard. All were convicted in the lower courts. Five of the defendants appealed, and in one case the decision of the lower court was reversed in the superior court. Fines to the amount of $432 were imposed.

The samples of drugs examined were Powdered Opium, Tincture of Opium, Tincture of Nux Vomica, Sulphate of Quinine, Iodide of Potassium, Ethereal Oil, Oil of Peppermint, Oil of Lemon, Port Wine, Chloroform, Iodoform, Extract of Licorice, Cocoa Butter, Lycopodium, Pepsin, Arrowroot, Ginger, Cloves, Syrup. The samples which did not conform to the standard were Powdered Opium, Tincture of Opium, Iodide of Potassium and Port Wine.

Cases requiring special mention were those of **W. Patterson of the Boston Baking Powder Company,** convicted for sale of mustard containing 25 per cent. of terra alba, a substance pronounced to be injurious to health.

Evidence in court showed that the following parties living outside the State had sold as a pure article to retailers doing business in Massachusetts, molasses containing from 50 to 90 per cent. of glucose: —

The Gillies Coffee Company, New York City.
H. L. Hobert, New York City.
Mather & Bros., Albany, N. Y.

Samples of an article labelled Japan Pepper, **Connecticut Spice Mills, Hartford,** are found to contain but little if any pepper, but are chiefly composed of other substances.

The cities and towns from which samples of food and drugs were obtained during the month were as follows: Boston, Cambridge, Lowell, Worcester, Springfield, Lawrence, Gloucester, Salem, Newton, Somerville, Fall River, New Bedford, Quincy, Marlborough, Pittsfield, North Adams, Andover, North Andover, Weston, West Boylston, Hyde Park, Brookline, Revere, Palmer, Ware, Belchertown and Abington.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, July 19, 1890,

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending July 19, 1890.

Deaths reported to the State Board of Health in 22 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	219	101	56	26	46	1	7
Worcester,	81,622	31	21	14	2	14	..	..
Lowell,	73,370	56	36	22	6	20	2	..
Cambridge,	67,026	33	22	14	1	12	..	1
Fall River,	64,092	48	32	24	5	24	..	..
Lynn,	55,200	14	..	..	1	..	..	..
Springfield,	41,520	11	4	3	2	3	..	1
Lawrence,	41,058	31	18	12	..	10	..	..
New Bedford,	38,218	15	11	5	..	5	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	9	5	1	1	..	..	..
Chelsea,	28,781	16	7	3	2	3	..	..
Haverhill,	27,124	17	11	9	2	9	..	..
Taunton,	25,544	8	4	2	1	2	..	..
Gloucester,	24,904	8	4	..	2	..	..	..
Newton,	22,011	7	1	..	..	..	..	..
Malden,	20,615	6	3	1	1	1	..	..
Waltham,	17,998	4	1	..	1	..	..	..
Fitchburg,	17,304	3	2	1	..	1	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	2	0	..	1	..	..	..
Quincy,	14,114	2	1	..	..	..	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	4	1	..	1	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	2	0	..	1	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,147,927	546	285	167	56	150	3	9

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 22 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

One hundred and sixty-seven deaths were reported from the principal infectious diseases: diarrhœal diseases, 153; diphtheria and croup, 9; typhoid fever, 3; whooping-cough, 3; measles, 1; erysipelas, 1;

No deaths were reported from small-pox, scarlet-fever, cerebro-spinal meningitis, puerperal fever and malarial fevers.

There were 56 deaths from consumption; acute lung diseases, 19; and still-births, 19.

From whooping-cough: Boston, Cambridge and Salem, 1 each. From measles: Lawrence, 1. From erysipelas: Boston, 1.

Deaths from the principal infectious diseases numbered 167 against 143 for the preceding week.

Deaths under five years of age numbered 285 against 238 for the preceding week.

The death-rates for the week were: Boston, 27.24; Worcester, 19.74; Lowell, 39.68; Cambridge, 25.57; Fall River, 38.92; Lynn, 13.19; Springfield, 13.77; Lawrence, 39.24; New Bedford, 20.40; Holyoke, ——; Somerville, ——; Brockton,——; Salem, 16.00; Chelsea, 28.89; Haverhill, 33.61; Taunton, 16.28; Gloucester, 16.70; Newton, 16.53; Malden, 15.13; Waltham, 11.55; Fitchburg, 6.01; Quincy, 7.36; Northampton, ——; Newburyport, 14.88; Woburn, ——.

The total death-rate for the week was 24.73 against 24.06 and 17.30 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.			VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, July 19, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 13,	30.10	67.0	75.0	59.0	66	68	67.0	S.	S.W.	12	6	F.	F.		0.00
Monday, 14,	30.08	67.0	78.0	56.0	89	68	79.0	N.W.	S.W.	8	12	O.	C.		0.00
Tuesday, 15,	29.99	77.0	91.0	64.0	80	72	76.0	S.W.	S.W.	21	8	O.	O.		0.00
Wednes'y, 16,	30.02	82.0	93.0	72.0	56	37	46.0	W.	S.W.	10	7	O.	C.		0.00
Thursday, 17,	29.87	76.0	84.0	68.0	50	45	47.0	W.	W.	3	14	O.	F.		0.00
Friday, 18,	29.90	72.0	76.0	68.0	52	38	45.0	N.W.	N.	24	7	C.	C.		0.07
Saturday, 19,	29.93	65.0	74.0	56.0	61	65	63.0	S.W.	N.	12	10	O.	F.		0.00
Week, - -															

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, July 26, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending July 26, 1890.

Deaths reported to the State Board of Health in 22 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

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Springfield,	41,520	19	12	11	..	9	1	..
Lawrence,	41,058	42	..	15	..	13	..	1
New Bedford,	38,218	18	10	9	..	9	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	4	4	3	..	3	..	..
Salem,	29,242	12	6	2	..	2	..	..
Chelsea,	28,781	8	2	2	1	2	..	..
Haverhill,	27,124	7	3	2	..	2	..	..
Taunton,	25,544	18	11	7	..	7	..	..
Gloucester,	24,904	12	7	..	..	..	..	..
Newton,	22,011	3	0	..	..	..	..	..
Malden,	20,615	3	0	..	..	..	..	..
Waltham,	17,998	10	2	1	1	..	..	..
Fitchburg,	17,304	3	2	1	..	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	..	..	..	..	..	..	..
Quincy,	14,114	9	5	2	1	1	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	4	1	3	1	..	..	3
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	4	2	1	2	1	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup
Total of reporting towns,	1,162,976	538	265	192	42	160	5	13

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 22 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

One hundred and ninety-two deaths were reported from the principal infectious diseases: diarrhœal diseases, 160; diphtheria and croup, 13; typhoid fever, 5; cerebro-spinal meningitis, 5; measles, 3; erysipelas, 2; puerperal fever, 2; scarlet-fever, 1; whooping-cough, 1.

No deaths were reported from small-pox and malarial fevers.

There were 42 deaths from consumption; acute lung diseases, 20; still-births, 24.

From cerebro-spinal meningitis: Boston, 3; Waltham and Quincy, 1 each. From measles: Boston, Worcester and Lowell, 1 each. From erysipelas: Worcester and Fitchburg, 1 each. From puerperal fever: Fall River and Lawrence, 1 each. From scarlet-fever: Springfield, 1. From whooping-cough: Lowell, 1.

Deaths from the principal infectious diseases numbered 192 against 167 for the preceding week.

Deaths under five years of age numbered 265 against 285 for the preceding week.

The death-rates for the week were: Boston, 22.88; Worcester, 24.20; Lowell, 37.56; Cambridge, 17.60; Fall River, 41.26; Lynn, 11.30; Springfield, 23.78; Lawrence, 53.17; New Bedford, 24.48; Holyoke, ——; Somerville, ——; Brockton, 16.88; Salem, 21.33; Chelsea, 14.44; Haverhill, 13.41; Taunton, 36.63; Gloucester, 25.05; Newton, 7.08; Malden, 7.56; Waltham, 28.88; Fitchburg, 9.01; Quincy, 33.12; Northampton, ——; Newburyport, 14.88; Woburn, ——.

The total death-rate for the week was 24.05 against 24.73 and 24.06 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, July 26, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 20,	30.11	61.0	68.0	54.0	61	61	61.0	N.W.	E.	10	4	O.	O.		0.08
Monday, 21,	30.24	61.0	68.0	53.0	59	49	54.0	N.W.	S. E.	4	7	C.	F.		0.00
Tuesday, 22,	30.24	64.0	72.0	55.0	52	63	58.0	S. E.	S.	2	9	O.	F.		0.00
Wednes'y, 23,	30.23	68.0	77.0	59.0	60	49	55.0	S.W.	S.	11	8	C.	C.		0.00
Thursday, 24,	30.20	63.0	70.0	57.0	82	90	86.0	S.	S. E.	2	9	O.	O.		0.00
Friday, 25,	30.03	73.0	83.0	63.0	97	91	94.0	E.	S.W.	8	15	O.	R.		0.48
Saturday, 26,	29.92	75.0	81.0	70.0	87	93	90.0	S.W.	S.	12	15	F.	O.		0.98
Week, - -	30.02		74.0	59.0			71.0								

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Aug. 2, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Aug. 2, 1890.

Deaths reported to the State Board of Health in 20 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	284	154	103	30	89	4	8
Worcester,	81,622	55	55	35	..	35	..	..
Lowell,	73,370	51	51	29	4	27	..	..
Cambridge,	67,026	34	34	17	2	12	1	1
Fall River,	64,092	48	48	26	4	24	2	..
Lynn,	55,200	23	23	6	3	6	..	..
Springfield,	41,520	27	27	15	1	13	..	1
Lawrence,	41,058	30	30	9	..	8	1	..
New Bedford,	38,218	23	23	10	3	10	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	27	19	12	..	10	1	..
Chelsea,	28,781	18	12	1	3	..	..	..
Haverhill,	27,124	14	8	8	..	8	..	..
Taunton,	25,544	20	13	6	1	6	..	..
Gloucester,	24,904	9	3	1	..	..	..	1
Newton,	22,011	..	..	..	..	..	..	..
Malden,	20,615	8	4	1	2	1	..	..
Waltham,	17,998	4	2	2	..	2	..	..
Fitchburg,	17,304	..	..	..	..	..	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	6	4	4	..	3	..	..
Quincy,	14,114	14	10	5	..	5	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	11	6	3	..	3	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	11	5	5	2	3	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup
Total of reporting towns,	1,108,612	717	441	298	55	265	9	11

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 20 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Two hundred and ninety-eight deaths were reported from the principal infectious diseases: diarrhœal diseases, 265; diphtheria and croup, 11; typhoid fever, 9; whooping-cough, 7; measles, 2; scarlet-fever, 2; erysipelas and cerebro-spinal meningitis, each 1.

No deaths were reported from small-pox, malarial fevers and puerperal fever.

There were 55 deaths from consumption; acute lung diseases, 26; still-births, 26.

From whooping-cough: Lowell and Cambridge, 2 each; Boston and Salem, 1 each. From measles: Boston and Springfield, 1 each. From scarlet-fever: Chelsea and Pittsfield, 1 each. From erysipelas: Peabody, 1.

Deaths from the principal infectious diseases numbered 298 against 192 for the preceding week.

Deaths under five years of age numbered 441 against 265 for the preceding week.

Cases reported in Boston: measles, 28; diphtheria, 14; scarlet-fever, 14; and typhoid fever, 5.

The death-rates for the week were: Boston, 35.32; Worcester, 35.03; Lowell, 36.14; Cambridge, 26.35; Fall River, 38.92; Lynn, 21.66; Springfield, 33.80; Lawrence, 37.98; New Bedford, 31.28; Holyoke, ——; Somerville, ——; Brockton, 26.83; Salem, 48.00; Chelsea, 32.50; Haverhill, 26.83; Taunton, 40.70; Gloucester, 18.79; Newton, ——; Malden, 20.17; Waltham, 11.55; Fitchburg, ——; Quincy, 51.54; Northampton, ——, Newburyport, 40.73; Woburn, ——.

The total death-rate for the week was 33.63 against 24.05 and 24.73 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL	
Week ending Saturday, Aug. 2, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	7 A. M.	3 P. M.	7 A. M.	3 P. M.	7 A. M.	3 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, July 27,	30.05	77.0	85.0	70.0	65	63	64.0	S.W.	W.	8	6	C.	F.		0.00
Monday, 28,	30.19	73.0	80.0	66.0	74	67	70.0	W.	S.	5	10	H.	F.		0.00
Tuesday, 29,	30.18	70.0	73.0	67.0	79	85	81.0	S.W.	E.	6	3	R.	C.		0.07
Wednes'y, 30,	30.02	81.0	93.0	69.0	78	69	73.0	W.	S.W.	10	17	C.	O.		0.00
Thursday, 31,	29.87	85.0	95.0	76.0	62	85	74.0	S.W.	E.	16	5	C.	O.		0.13
Friday, Aug. 1,	30.02	70.0	74.0	65.0	84	80	82.0	N. E.	E.	7	5	O.	C		0.17
Saturday, 2,	30.19	69.0	75.0	64.0	62	62	62.0	S. E.	S. E.	3	4	C.	C.		0.00
Week, - -	30.07		82.0	68.0			72.0								

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In the 22 smaller towns of Massachusetts as reported to the State Board of Health for the month of July.

The total death-rate of reporting towns for the month was 11.89.

TOWNS.	Estimated Population.	Reported Deaths in each.	Deaths under five years of age.	Deaths from				
				Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	AcuteLung Diseases.
Hyde Park,	9,741	..	..	..	..	..	..	..
Plymouth,	7,731	..	..	..	..	..	..	..
Wakefield,	6,959	..	..	..	..	..	..	..
Andover,	6,054	..	..	..	..	..	..	..
Stoneham,	6,158	1	0	..	..	..	..	..
Westborough,	5,263	6	0	..	2	..	..	..
Middleborough,	5,233	3	1	..	1	..	..	1
Arlington,	5,066	..	..	..	..	..	..	..
West Springfield,	4,868	..	..	..	..	..	..	..
Provincetown,	4,642	..	..	..	..	..	..	..
Concord,	4,435	3	0	..	..	..	..	..
Whitman,	4,429	..	..	..	..	..	..	..
Hingham,	4,375	6	0	..	..	..	..	1
Amherst,	4,474	..	..	..	..	..	..	..
Braintree,	4,188	..	..	..	..	..	..	..
Hudson,	4,185	6	0	..	..	..	..	..
Revere,	3,981	..	..	..	..	..	..	..
Randolph,	3,963	11	0	2	3	..	2	..
Northbridge,	3,786	..	..	..	..	..	..	..
No. Andover,	3.680	3	1	1	2	1	..	..
Bradford,	3,566	1	1	1	..	1	..	..
Mansfield,	3,448	..	..	..	..	..	..	..
Leicester,	3,003	1	0	..	1	..	..	..
Fairhaven,	2,937	..	..	..	..	..	..	..
Wrentham,	2,892	3	0	..	1	..	..	..
Swampscott,	2,670	4	1	..	..	..	..	..
Merrimac,	2,629	2	0	..	..	..	..	..
Dalton,	2,325	5	1	1	..	..	1	..
Chelmsford,	2,693	..	..	..	..	..	..	..
Cohasset,	2,226	..	..	..	..	..	..	..
Northborough,	2,163	..	..	..	..	..	..	..
Ashburnham,	2,058	2	0	..	..	..	..	..
Groton,	2,074	2	0	..	..	..	..	..
Longmeadow,	2,178	2	0	..	..	..	..	..
Norton,	1,728	1	0	..	..	..	..	..
Shrewsbury,	1,438	2	1	..	..	..	..	1
Huntington,	1,366	..	..	..	..	..	..	..
Topsfield,	1,141	1	0	..	..	..	..	..
Truro,	972	0	0	..	..	..	..	..
Bolton,	876	..	..	..	..	..	..	..
Burlington,	604	1	0	..	..	..	..	..
Heath,	575	..	..	..	..	..	..	..
Wendell,	545	..	..	..	..	..	..	..
		..	..	..	..	..	..	..
		..	..	..	..	..	..	..
		..	..	..	..	..	..	..
		..	..	..	..	..	..	..
		..	..	..	..	..	..	..
Total of reporting towns,	66,570	66	6	5	10	2	3	3

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Aug. 9, 1890,

AND

MONTHLY BULLETIN

OF

FOOD AND DRUG INSPECTION

For the Month of July.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Aug. 9, 1890.

Deaths reported to the State Board of Health in 23 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Whooping-Cough.
Boston,	418,110	278	138	87	39	77	3	..
Worcester,	81,622	27	22	16	1	16	..	..
Lowell,	73,370	56	40	37	3	33	3	..
Cambridge,	67,026	33	13	8	4	7	..	1
Fall River,	64,092	46	31	25	3	25	..	..
Lynn,	55,200	28	20	7	3	7	..	..
Springfield,	41,520	17	12	9	..	7	1	..
Lawrence,	41,058	29	17	7	1	5	1	2
New Bedford,	38,218	22	16	14	1	14	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	18	14	9	..	9	..	..
Salem,	29,242	29	22	15	1	11	..	4
Chelsea,	28,781	13	5	..	2	..	..	..
Haverhill,	27,124	15	8	8	..	8	..	..
Taunton,	25,544	13	7	5	2	4	..	1
Gloucester,	24,904	10	5	7	..	6	..	..
Newton,	22,011	9	8	5	..	5	..	..
Malden,	20,615	18	9	3	2	3	..	..
Waltham,	17,998	9	7	8	..	8	..	..
Fitchburg,	17,304	4	2	1	1	1	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	5	..	4	1	3	..	..
Quincy,	14,114	13	9	9	..	8	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	9	6	4	..	4	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	6	5	3	..	2	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Whooping Cough.
Total of reporting towns,	1,178,738	707	416	291	64	263	8	8

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 23 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Two hundred and ninety-one deaths were reported from the principal infectious diseases: diarrhœal diseases, 263; whooping-cough, 8; typhoid fever, 8; diphtheria and croup, 4; scarlet-fever, 3; cerebro-spinal meningitis, 3; measles, 1.

No deaths were reported from small-pox, malarial fever and puerperal fever.

There were 63 deaths from consumption: acute lung diseases, 11; and still-births, 30.

From diphtheria and croup: Boston, 3; Gloucester, 1. From scarlet-fever: Boston, Springfield and Pittsfield, 1 each. From cerebro-spinal meningitis: Boston, Lowell and Quincy, 1 each. From measles: Boston, 2.

Deaths from the principal infectious diseases numbered 291 against 298 for the preceding week.

Deaths under five years of age numbered 416 against 441 for the preceding week.

Cases reported in Boston: typhoid fever, 24; measles, 17; scarlet-fever, 10; and diphtheria, 7.

The death-rates for the week were: Boston, 34.58; Worcester, 17.19; Lowell, 39.68; Cambridge, 25.57; Fall River, 37.30; Lynn, 26.37; Springfield, 21.28; Lawrence, 36.71; New Bedford, 29.92; Holyoke, ——; Somerville, ——; Brockton, 29.38; Salem, 51.56; Chelsea, 23.47; Haverhill, 28.75; Taunton, 26.45; Gloucester, 20.88; Newton, 21.25; Malden, 45.39; Waltham, 25.99; Fitchburg, 12.02; Quincy, 12.02; Northampton, ——; Newburyport, 33.48; Woburn, ——.

The total death-rate for the week was 31.10 against 33.63 and 24.05 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Aug. 9, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 3,	30.18	71.0	82.0	61.0	83	84	83.0	S.	S.W.	2	6	C.	C.		0.00
Monday, 4,	30.12	79.0	89.0	69.0	84	75	80.0	S.W.	S.W.	12	12	O.	C.		0.00
Tuesday, 5,	30.16	80.0	89.0	72.0	71	78	75.0	S.W.	S.	12	8	C.	C.		0.00
Wednes'y, 6,	30.04	80.0	84.0	76.0	75	59	67.0	S.W.	W.	11	8	C.	C.		0.20
Thursday, 7,	30.11	71.0	78.0	64.0	57	68	62.0	N.W.	S. E.	9	2	C.	F.		0.00
Friday, 8,	30.12	72.0	78.0	65.0	67	80	73.0	S. E.	E.	4	3	O.	C.		0.00
Saturday, 9,	29.97	64.0	68.0	60.0	87	100	93.0	S. E.	N. E.	3	4		C.		0.15
Week, - -															

* O., Cloudy: C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of July : —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	123	216	339	Maple Syrup, .	..	..	..
Butter, . . .	14	3	17	Canned Goods, .	..	..	..
Cheese, . . .	..	..	..	Honey, . . .	1	..	1
Lard, . . .	..	..	..	Tea, . . .	5	..	5
Olive Oil, . . .	..	..	..	Coffee, . . .	2	..	2
Vinegar, . . .	9	6	15	Cocoa, . . .	..	1	1
Spices, . . .	82	15	97	Confectionery, .	..	..	..
Cream of Tartar, .	28	4	32	Other articles of Food and Drinks,	4	1	5
Molasses, . .	42	6	48	Drugs, . . .	42	15	57
Syrups, . . .	..	..	..				
Maple Sugar, . .	2	1	3	Totals, . .	354	268	622

Percentage of adulteration, 43.1. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The unusually poor quality of the milk obtained in July accounts for the large percentage of adulteration. The ratio of samples of milk found to be below the standard was 63.7 per cent. That of other articles was but 18.4 per cent.

Five complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs. Two were for illegal sales of oleomargarine, two of molasses and one of maple syrup. All were convicted. $215 in fines were imposed.

The samples of drugs examined were Powdered Opium, Tincture of Opium, Quinine, Citrate of Iron and Quinine, Tincture of Nux Vomica, Tannic Acid, Diluted Hydrobromic Acid, Ether, Compound Spirits of Ether, Spirits of Nitrous Ether, Chloroform, Chloral Hydrate, Iodoform, Licorice, Glycerine, Syrup, Cloves, Ginger, Cinnamon, Arrowroot, Musk, Lycopodium, Jalap, Aloes, Iodide of Potassium, Subnitrate of Bismuth, Solution of Citrate of Magnesia, Red Wine and Essential Oils.

The adulterated samples were Powdered Opium, Tincture of Opium, Tincture of Nux Vomica, Diluted Hydrobromic Acid, Compound Spirits of Ether, Spirits of Nitrous Ether, Syrup, Musk and Jalap.

An article labeled "Ozonos," and sold as a disinfectant, was examined and found to be a Solution of Permanganate of Potash.

The cities and towns from which samples were obtained were Boston, Lynn, Lowell, Fall River, Gloucester, Holyoke, Worcester, Taunton, Haverhill, Fitchburg, Cambridge, Lawrence, Salem, Somerville, Newton, Waltham, Andover, Revere, Winthrop, Palmer, Hull, Cohasset, Cottage City, Nantucket, Falmouth, Dedham, Montague, Weymouth, Ashland, Brookline, Medford, Natick, Southborough, Wakefield, Wayland and Weston.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Aug. 16, 1890,

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Aug. 16, 1890.

Deaths reported to the State Board of Health in 23 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will coutain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Whooping-Cough.	Diphtheria and Croup.
Boston,	418,110	242	111	61	36	54	..	3
Worcester,	81,622	34	24	20	1	16	1	..
Lowell,	73,370	46	22	16	3	16	..	..
Cambridge,	67,026	27	14	12	2	10	1	..
Fall River,	64,092	40	24	25	3	23	..	..
Lynn,	55,200	30	17	6	4	5	..	..
Springfield,	41,520	21	10	6	1	6	..	..
Lawrence,	41,058	16	5	3	4	3	..	..
New Bedford,	38,218	25	16	10	2	9	..	1
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	7	4	4	1	3	1	..
Salem,	29,242	20	13	8	1	7	1	..
Chelsea,	28,781	12	11	..	2	..	..	..
Haverhill,	27,124	7	4	3	..	2	1	..
Taunton,	25,544	22	15	12	..	11	1	..
Gloucester,	24,904	13	8	3	3	3	..	..
Newton,	22,011	10	7	4	..	4	..	..
Malden,	20,615	7	1	..	1	..	..	..
Waltham,	17,998	10	6	5	2	5	..	..
Fitchburg,	17,304	10	7	4	1	4	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	6	5	6	..	4	..	2
Quincy,	14,114	6	6	6	..	6	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	9	5	2	..	2	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	8	6	6	..	5	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Whooping Cough.	Diphtheria and Croup.
Total of reporting towns,	1,178,738	628	341	222	67	198	6	6

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 23 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Two hundred and twenty-two deaths were reported from the principal infectious diseases: diarrhœal diseases, 198; diphtheria and croup, 6; whooping-cough, 6; typhoid fever, 5; cerebro-spinal meningitis, 4; scarlet-fever, malarial fever and puerperal fever, each 1.

No deaths were reported from small-pox.

There were 67 deaths from consumption; acute lung diseases, 34; and still-births, 34.

From typhoid fever: Boston, 3; Worcester and Fall River, 1 each. From cerebro-spinal meningitis: Worcester, 2; Lynn and Chelsea, 1 each. From scarlet-fever: Boston, 1. From malarial fever: Fall River, 1. From puerperal fever: Cambridge, 1.

Deaths from the principal infectious diseases numbered 222 against 291 for the preceding week.

Deaths under five years of age numbered 341 against 416 for the preceding week.

Cases reported in Boston: typhoid fever, 18; measles, 14; diphtheria, 12; and scarlet-fever, 6.

The death-rates for the week were: Boston, 30.10; Worcester, 21.65; Lowell, 32.56; Cambridge, 20.92; Fall River, 32.44; Lynn, 28.26; Springfield, 26.29; Lawrence, 20.25; New Bedford, 34.00; Holyoke, ——; Somerville, ——; Brockton, 11.85; Salem, 35.56; Chelsea, 21.67; Haverhill, 13.41; Taunton, 44.77; Gloucester, 27.14; Newton, 23.62; Malden, 17.64; Waltham, 28.80; Fitchburg, 30.60; Quincy, 16.08; Northampton, ——; Newburyport, 33.57; Woburn, ——.

The total death-rate for the week was 27.70 against 31.10 and 33.63 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.			VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Aug. 16, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 10,	29.77	72.0	82.0	63.0	67	72	69.0	W.	S. E.		7	1		F.	F.			0.07
Monday, 11,	29.84	64.0	73.0	60.0	61	75	68.0	N. E.	E.		6	1		O.	C.			0.00
Tuesday, 12,	30.08	64.0	67.0	61.0	79	89	84.0	N. E.	N. E.		7	6		O.	O.			T.
Wednes'y, 13,	30.10	66.0	70.0	61.0	63	62	62.0	W.	N.W.		7	7		C.	C.			T.
Thursday, 14,	29.97	72.0	81.0	60.0	74	60	67.0	W.	N.W.		8	9		C.	C.			0.00
Friday, 15,	30.00	73.0	84.0	62.0	45	53	49.0	N.	N.		6	8		C.	C.			T.
Saturday, 16,	30.23	65.0	75.0	56.0	45	58	51.0	S.W.	S.W.		4	3		O.	O.			0.00
Week, - -																		

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Aug. 23, 1890,

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Aug. 23, 1890.

Deaths reported to the State Board of Health in 22 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	200	92	61	18	47	6	5
Worcester,	81,622	30	12	11	1	9	..	..
Lowell,	73,370	36	18	16	3	13	2	..
Cambridge,	67,026	29	15	15	1	14	1	..
Fall River,	64,092	33	14	10	5	8	..	1
Lynn,	55,200	23	15	11	1	7	..	..
Springfield,	41,520	17	8	7	..	6	..	1
Lawrence,	41,058	29	19	9	2	8	..	..
New Bedford,	38,218	21	13	10	2	10	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	21	12	6	1	4	..	..
Chelsea,	28,781	13	7	2	1	1	..	..
Haverhill,	27,124	14	6	4	1	2	..	1
Taunton,	25,544	9	5	3	..	3	..	..
Gloucester,	24,904	9	7	5	1	5	..	..
Newton,	22,011	3	2	1	1	1	..	..
Malden,	20,615	7	4	4	1	2	1	..
Waltham,	17,998	10	5	3	..	1	..	..
Fitchburg,	17,304	6	2	2	1	2	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	5	5	3	1	2	..	..
Quincy,	14,114	*29	8	2	..	2	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	9	1	2	..	2	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	5	4	3	1	3	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,147,927	555	274	190	42	152	10	9

*Twenty-one deaths by railroad accident. One under five years of age not included in the number returned as under five.

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 22 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

One hundred and ninety deaths were reported from the principal infectious diseases: diarrhœal diseases, 152; typhoid fever, 10; diphtheria and croup, 9; whooping-cough, 7; cerebro-spinal meningitis, 5; scarlet-fever, 4; puerperal fever, erysipelas and malarial fever, each 1.

No deaths were reported from small-pox.

There were 42 deaths from consumption; acute lung diseases, 19; and still-births, 26.

From whooping-cough: Salem and Waltham, each 2; Lowell, Lawrence and Chelsea, each 1. From cerebro spinal meningitis: Lynn 4; Boston, 1. From scarlet-fever: Worcester, 2; Malden and Pittsfield, each 1. From puerperal fever: Boston, 1. From erysipelas: Boston, 1. From malarial fever: Fall River, 1.

Deaths from the principal infectious diseases numbered 190 against 222 for the preceding week.

Deaths under five years of age numbered 274 against 341 for the preceding week.

Cases reported in Boston: typhoid fever, 27; diphtheria, 23; measles, 23; and scarlet-fever, 6.

The death-rates for the week were: Boston, 24.88; Worcester, 19.11; Lowell, 25.48; Cambridge, 22.47; Fall River, 26.76; Lynn, 21.66; Springfield, 21.28; Lawrence, 36.71; New Bedford, 28.56; Holyoke, ——; Somerville, ——; Brockton, ——; Salem, 37.33; Chelsea, 22.88; Haverhill, 26.83; Taunton, 18.31; Gloucester, 18.79; Newton, 7.08; Malden, 17.64; Waltham, 28.80; Fitchburg, 9.18; Quincy, ——; Northampton, ——; Newburyport, 18.65; Woburn, ——.

The total death-rate for the week was 25.14 against 27.70 and 31.10 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.			VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Aug. 23, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.		MEAN.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 17,	30.11	68.0	85.0	60.0	83	82		82.0	S.W.	S.W.		4	6		O.	O.			0.00
Monday, 18,	30.13	70.0	75.0	65.0	83	82		82.0	N.W.	S. E.		9	4		O.	O.			0.35
Tuesday, 19,	30.16	64.0	69.0	59.0	94	93		93.0	E.	S. E.		5	13		O.	O.			T.
Wednes'y, 20,	30.09	70.0	75.0	66.0	93	76		85.0	W.	S. E.		11	4		R.	C.			0.54
Thursday, 21,	30.00	69.0	75.0	62.0	77	75		76.0	S. E.	S. E.		6	7		O.	O.			0.00
Friday, 22,	29.87	72.0	80.0	65.0	78	71		74.0	W.	S. E.		10	8		F.	C.			0.06
Saturday, 23,	29.91	62.0	65.0	59.0	92	97		94.0	N. E.	N. E.		12	4		R.	R.			0.16
Week, - -																			

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

— OF —

MASSACHUSETTS

FOR THE

Week ending Saturday, Aug. 30, 1890,

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Aug. 30, 1890.

Deaths reported to the State Board of Health in 21 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	205	105	63	22	44	6	11
Worcester,	81,622	32	20	10	3	10	..	..
Lowell,	73,370	42	21	19	5	16	1	..
Cambridge,	67,026	31	19	14	4	12	1	..
Fall River,	64,092	37	24	5	2	..	1	4
Lynn,	55,200	17	10	5	4	3	..	..
Springfield,	41,520	14	7	5	4	5	..	..
Lawrence,	41,058	14	10	8	..	7	..	1
New Bedford,	38,218	20	11	10	2	9	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	6	4	4	2	3	..	..
Salem,	29,242	18	11	5	1	4	1	..
Chelsea,	28,781	22	8	2	4	1	1	..
Haverhill,	27,124	12	7	5	..	5	..	..
Taunton,	25,544	..	..	..	..	..	..	..
Gloucester,	24,904	8	4	..	1	..	..	..
Newton,	22,011	12	4	3	..	1	..	1
Malden,	20,615	4	2	1	1	1	..	..
Waltham,	17,998	5	1	..	1	..	..	..
Fitchburg,	17,304	4	2	1	1	1	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	12	7	7	..	7	..	..
Quincy,	14,114	6	5	3	..	3	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	5	1	..	..	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,142,897	526	283	170	57	132	11	17

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 21 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

One hundred and seventy deaths were reported from the principal infectious diseases: diarrhœal diseases, 132; diphtheria and croup, 17; typhoid fever, 11; cerebro-spinal meningitis, 4; whooping-cough, 4; erysipelas, 2.

No deaths were reported from small-pox, malarial fever and puerperal fever.

There were 57 deaths from consumption; acute lung diseases, 38; and still-births, 30.

From cerebro-spinal meningitis: Lynn, 2; Boston and Lowell, each, 1. From whooping-cough: Boston, Cambridge, New Bedford and Brockton, each 1. From erysipelas: Lowell and Newton, each 1.

Deaths from the principal infectious diseases numbered 170 against 190 for the preceding week.

Deaths under five years of age numbered 283 against 274 for the preceding week.

Cases reported in Boston: typhoid fever, 31; diphtheria, 25; measles, 9; and scarlet-fever, 5.

The death-rates for the week were: Boston, 25.50; Worcester, 20.38; Lowell, 29.75; Cambridge, 24.02. Fall River, 30.00; Lynn, 16.01; Springfield, 17.52; Lawrence, 17.72; New Bedford, 27.20; Holyoke, ——; Somerville, ——; Brockton, 10.12; Salem, 32.00; Chelsea, 39.73; Haverhill, 23.00; Taunton, ——; Gloucester, 16.28; Newton, 28.34: Malden, 10.08; Waltham, 14.44; Fitchburg, 12.02; Quincy, 22.08; Northampton, ——; Newburyport, 18.60; Woburn, ——.

The total death-rate for the week was 23.93 against 25.14 and 27.70 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.			VELOCITY OF WIND.		STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Aug. 30, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 24,	30.02	60.0	68.0	53.0	88	73	80.0	N.W.	W.	8	11	O.	F.			0.19
Monday, 25,	30.03	61.0	72.0	50.0	80	59	70.0	W.	S.W.	12	8	F.	C.			0.00
Tuesday, 26,	29.97	68.0	77.0	59.0	77	88	83.0	S. W.	S.	3	3	C.	F.			T.
Wednes'y, 27,	29.59	70.0	77.0	63.0	98	68	83.0	S.	S.W.	7	12	R.	C.			0.68
Thursday, 28,	29.84	70.0	76.0	63.0	60	68	64.0	W.	N.W.	16	8	C.	C.			0.00
Friday, 29,	29.72	67.0	72.0	59.0	65	82	74.0	N.W.	S. E.	9	8	F.	C.			0.00
Saturday, 30,	29.76	67.0	75.0	60.0	85	63	74.0	S.	W.	4	10	O.	C.			0.08
Week, - -	29.85		74.0	58.0			75.0									

* O., Cloudy: C., Clear; F.. Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Sept. 6, 1890,

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Sept. 6, 1890.

Deaths reported to the State Board of Health in 21 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

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CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	418,110	191	87	51	22	29	7	11
Worcester,	81,622	32	18	14	2	9	2	2
Lowell,	73,370	39	19	17	1	11	4	1
Cambridge,	67,026	28	17	7	3	5	..	1
Fall River,	64,092	24	14	7	3	6	..	1
Lynn,	55,200	14	6	3	1	..	..	1
Springfield,	41,520	13	6	5	2	4	..	1
Lawrence,	41,058	19	5	4	2	2	1	..
New Bedford,	38,218	17	9	6	2	6	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	..	..	..	..	..	..	..
Salem,	29,242	17	10	4	..	1	2	..
Chelsea,	28,781	8	3	1	2	1	..	..
Haverhill,	27,124	6	4	1	..	1	..	..
Taunton,	25,544	5	2	2	..	2	..	..
Gloucester,	24,904	9	5	3	1	3	..	..
Newton,	22,011	6	2	..	..	..	..	..
Malden,	20,615	9	4	3	1	1	1	1
Waltham,	17,998	9	6	5	..	4	1	..
Fitchburg,	17,304	5	3	1	1	1	..	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	10	..	..	1	2	..	..
Quincy,	14,114	14	9	2	..	..	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	..	..	..	..	..	..	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	8	5	3	..	2	1	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,134,012	483	234	139	44	90	19	19

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 21 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

One hundred and thirty-nine deaths were reported from the principal infectious diseases: diarrhœal diseases, 90; diphtheria and croup, 19; typhoid fever, 19; whooping-cough, 6; cerebro-spinal meningitis, 3; scarlet-fever 1.

No deaths were reported from small-pox, malarial fever and puerperal fever.

There were 44 deaths from consumption; acute lung diseases, 29; and still-births, 19.

From whooping-cough: Boston, 3; Cambridge, Lawrence and Salem, 1 each. From cerebro-spinal meningitis: Lynn, 2; Worcester, 1. From scarlet-fever, Boston, 1.

Deaths from the principal infectious diseases numbered 139 against 170 for the preceding week.

Deaths under five years of age numbered 234 against 283 for the preceding week.

Cases reported in Boston: typhoid fever, 35; diphtheria, 19; measles, 16; and scarlet-fever, 6.

The death-rates for the week were: Boston, 23.76; Worcester, 20.38; Lowell, 27.63; Cambridge, 21.70; Fall River, 19.46; Lynn, 13.18; Springfield, 16.27; Lawrence, 24.05; New Bedford, 23.12; Holyoke, ——; Somerville, ——; Brockton, ——; Salem, 30.22; Chelsea, 14.44; Haverhill, 11.50; Taunton, 10.17; Gloucester, 18.79; Newton, 14.17; Malden, 22.69; Waltham, 25.99; Fitchburg, 15.02; Quincy, 51.52; Northampton, ——; Newburyport, ——; Woburn, ——.

The total death-rate for the week was 22.14 against 23.93 and 25.14 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.			VELOCITY OF WIND.		STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Sept. 6, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Aug. Sunday, 31,	29.91	63.0	71.0	55.0	66	71	68.0	W.	W.	12	10	C.	C.			0.00
Sept. Monday, 1,	30.21	65.0	75.0	55.0	69	59	64.0	N.W.	W.	8	7	C.	C.			0.00
Tuesday, 2,	30.22	67.0	79.0	55.0	61	64	62.0	W.	W.	10	10	C.	C.			0.00
Wednes'y, 3,	30.24	63.0	65.0	60.0	77	78	77.0	N. E.	E.	12	4	F.	O.			0.00
Thursday, 4,	30.23	62.0	66.0	59.0	92	90	91.0	S. W.	S. E.	3	8	O.	C.			0.00
Friday, 5,	30.10	72.0	84.0	61.0	90	84	87.0	S. W.	W.	16	9	C.	C.			T.
Saturday, 6,	30.05	70.0	76.0	63.0	79	100	89.0	W.	E.	4	6	C.	R.			1.51
Week, - -	30.14		74.0	58.0			65.0									

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In the 19 smaller towns of Massachusetts as reported to the State Board of Health for the month of August.

The total death-rate of reporting towns for the month was 16.89.

TOWNS.	Estimated Population.	Reported Deaths in each.	Deaths under five years of age.	Deaths from				
				Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Hyde Park,	9,741	..	..	..	..	..	..	..
Plymouth,	7,731	..	..	..	..	..	..	..
Wakefield,	6,463	4	0	1	..	..	..	..
Andover,	6,054	..	..	..	..	..	..	..
Stoneham,	6,035	8	2	3	1	3	..	..
Westborough,	5,263	7	0	2	1	1	..	1
Middleborough,	5,233	9	3	3	1	3	..	..
Arlington.	5,066	..	..	..	..	..	..	..
West Springfield,	4,868	..	..	..	..	..	..	..
Provincetown,	4,543	..	..	..	..	..	..	..
Concord,	4,457	8	5	5	1	5	..	..
Whitman,	4,429	..	..	..	..	..	..	..
Hingham,	4,375	7	3	3	..	2	1	..
Amherst,	4,337	..	..	..	..	..	..	..
Braintree,	4,188	..	..	..	..	..	..	..
Hudson,	4,185	5	1	..	..	..	..	..
Revere,	3,981	..	..	..	..	..	..	..
Randolph,	3,807	5	3	3	..	3	..	..
Northbridge,	3,786	..	..	..	..	..	..	..
No. Andover,	3,680	..	..	..	..	..	..	..
Nantucket,	3,142	..	..	..	..	..	..	..
Mansfield,	3,094	..	..	..	..	..	..	..
Leicester,	3,003	..	..	..	..	..	..	..
Fairhaven,	2,937	..	..	..	..	..	..	..
Wrentham,	2,892	..	..	..	..	..	..	..
Swampscott,	2,670	3	1	..	..	..	..	..
Merrimac,	2,492	2	0	..	..	..	..	..
Dalton,	2,325	2	1	2	..	2	..	..
Chelmsford,	2,304	..	..	..	..	..	..	..
Cohasset,	2,226	..	..	..	..	..	..	..
Northborough,	2,163	..	..	..	..	..	..	..
Ashburnham,	2,058	..	..	..	..	..	..	..
Groton,	2,037	1	0	..	..	..	..	..
Longmeadow,	1,797	3	2	2	..	1	1	..
Conway,	1,573	2	1	..	..	..	..	..
Shrewsbury,	1,450	..	..	..	..	..	..	..
Huntington,	1,366	..	..	..	..	..	..	..
Topsfield,	1,141	1	0	..	..	..	..	..
Truro,	972	0	0	..	..	..	..	..
Bolton,	876	..	..	..	..	..	..	..
Burlington,	604	4	2	2	..	2	..	..
Heath,	575	..	..	..	..	..	..	..
Wendell,	545	1	0	..	..	..	..	..
Bradford,	3,722	12	6	6	3	6	..	..
Total of reporting towns,	59,696	84	30	32	7	28	2	1

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Sept. 13, 1890,

AND

MONTHLY BULLETIN

OF

FOOD AND DRUG INSPECTION

For the Month of August.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Sept. 13, 1890.

Deaths reported to the State Board of Health in 23 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	447,000	194	83	40	21	27	5	5
Worcester,	81,622	21	12	7	1	7	..	..
Lowell,	73,370	38	18	11	6	7	2	1
Cambridge,	67,026	25	11	8	4	6	..	1
Fall River,	64,092	32	15	14	4	11	2	1
Lynn,	55,200	22	14	4	1	2	..	2
Springfield,	41,520	20	15	10	..	9	..	..
Lawrence,	41,058	24	15	9	..	7	..	1
New Bedford,	38,218	11	5	3	1	3	..	..
Holyoke,	37,867	..	..	..	..	..	..	..
Somerville,	35,516	..	..	..	..	..	..	..
Brockton,	30,811	9	4	1	2	..	..	..
Salem,	29,242	16	7	5	1	3	1	..
Chelsea,	28,781	10	6	..	2	..	..	..
Haverhill,	27,124	11	3	3	3	1	1	1
Taunton,	25,544	5	2	1	..	1	..	..
Gloucester,	24,904	6	1	..	2	..	..	..
Newton,	22,011	10	2	2	2	2	..	..
Malden,	20,615	4	2	1	2	1	..	..
Waltham,	17,998	3	1	1	1	1	..	..
Fitchburg,	17,304	9	5	5	1	4	1	..
Attleborough,	15,994	..	..	..	..	..	..	..
Pittsfield,	15,762	2	0	..	2	..	..	..
Quincy,	14,114	7	6	4	..	2	..	..
Northampton,	13,934	..	..	..	..	..	..	..
Newburyport,	13,915	11	2	4	1	2	1	..
Woburn,	13,089	..	..	..	..	..	..	..
Marlborough,	12,557	..	..	..	..	..	..	..
Chicopee,	12,172	..	..	..	..	..	..	..
Weymouth,	11,239	..	..	..	..	..	..	..
Brookline,	10,929	..	..	..	..	..	..	..
Peabody,	10,397	6	2	1	1	1	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,207,628	496	231	134	58	97	13	12

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 23 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

One hundred and thirty-four deaths were reported from the principal infectious diseases: diarrhœal diseases, 97; typhoid fever, 13; diphtheria and croup, 12; whooping-cough, 7; cerebro-spinal meningitis, 2; measles, 2; scarlet-fever, 1.

No deaths were reported from small-pox, malarial fever and puerperal fever.

There were 58 deaths from consumption; acute lung diseases, 31; and still-births, 40.

From whooping-cough: Boston, 2; Lowell, Cambridge, Brockton, Salem and Newburyport, 1 each. From cerebro-spinal meningitis: Quincy, 2. From measles, Springfield and Lawrence, 1 each.

Deaths from the principal infectious diseases numbered 134 against 139 for the preceding week.

Deaths under five years of age numbered 231 against 234 for the preceding week.

Cases reported in Boston: typhoid fever, 48; diphtheria, 11; scarlet-fever, 4; and measles, 4.

The death-rates for the week were: Boston, 22.56; Worcester, 13.37; Lowell, 26.90; Cambridge, 19.37; Fall River, 27.92; Lynn, 20.72; Springfield, 25.04; Lawrence, 30.38; New Bedford, 14.96; Holyoke, ——; Somerville, ——; Brockton, 15.23; Salem, 28.44; Chelsea, 18.06; Haverhill, 21.08; Taunton, 10.17; Gloucester, 12.52; Newton, 23.62; Malden, 10.08; Waltham, 8.64; Fitchburg, 27.54; Quincy, 25.76; Northampton, ——; Newburyport, 41.03; Woburn, ——.

The total death-rate for the week was 21.36 against 22.14 and 23.93 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.			VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Sept. 13, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.		MEAN.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 7,	30.15	66.0	69.0	62.0	82	89		86.0	N. E.	E.		9	4		F.	C.			0.00
Monday, 8,	30.18	65.0	68.0	58.0	84	87		85.0	N.	S.		7	9		C.	C.			0.00
Tuesday, 9,	30.19	67.0	75.0	59.0	90	92		91.0	S. W.	N. E.		8	12		O.	O.			T.
Wednes'y, 10,	30.37	58.0	60.0	57.0	91	65		78.0	N. E.	N. E.		18	12		Lt R	O.			0.01
Thursday, 11,	30.39	61.0	63.0	58.0	71	84		78.0	N. E.	N. E.		10	11		O.	O.			Trace
Friday, 12,	30.18	69.0	78.0	61.0	95	91		93.0	E.	S.		1	13		O.	O.			0.97
Saturday, 13,	29.96	76.0	80.0	72.0	93	86		89.0	S. W.	S.		24	16		R.	R.			0.61
Week, - -	30.20		70.0	61.0				86.0											

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of August: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk,	71	129	200	Maple Syrup,	..	..	..
Butter,	3	2	5	Canned Goods,	..	..	..
Cheese,	..	..	..	Honey,	2	..	2
Lard,	..	..	..	Tea,	6	..	6
Olive Oil,	3	4	7	Coffee,	2	..	2
Vinegar,	17	13	30	Cocoa,	..	..	..
Spices,	66	10	76	Confectionery,	..	..	..
Cream of Tartar,	16	5	21	Other articles of Food and Drinks,	1	3	4
Molasses,	41	1	42	Drugs,	24	10	34
Syrups,	..	..	..				
Maple Sugar,	2	..	2				
				Totals.	254	177	431

Percentage of adulteration, 41.1. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The quality of the milk obtained during the month was unusually poor, 64.5 per cent. of the samples obtained of dealers being below the legal standard. The percentage of other samples of food which were not of standard quality was but 20.8.

Four complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs. One was for sale of adulterated cream of tartar, one of vinegar, one of milk and one of butter. All resulted in conviction. Fines amounting to $165 were paid.

The samples of drugs examined were Quinine, Citrate of Iron and Quinine, Tincture of Nux Vomica, Ether, Spirits of Nitrous Ether, Oil of Lemon, Tannic Acid, Chloral, Chloroform, Iodoform, Lycopodium, Ginger, Cloves, Jalap, Glycerine, Honey, Syrup, Extract of Licorice and Cough Balsam.

The adulterated samples were Citrate of Iron and Quinine, Tincture of Nux Vomica, Spirits of Nitrous Ether, Jalap, Syrup and Extract of Licorice.

The cities and towns from which samples were collected were Boston, Cambridge, Somerville, Lawrence, Gloucester, Lowell, Haverhill, Worcester, Newton, Woburn, Quincy, Lincoln, Warren, Weston, Provincetown, Watertown, Hopkinton, Milford, Framingham, Medfield, Hyde Park, Chicopee, Amherst, Orange, Southborough, Berkeley and Westborough.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Sept. 20, 1890,

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Sept. 20, 1890.

Deaths reported to the State Board of Health in 21 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	446,507	169	79	35	24	27	3	1
Worcester,	84,530	21	9	6	4	5	1	..
Lowell,	77,605	46	25	15	3	9	4	1
Fall River,	74,351	39	22	13	3	10	3	..
Cambridge,	69,837	34	14	4	4	2	2	..
Lynn,	55,684	18	7	7	2	6	1	..
Lawrence,	44,559	25	11	7	5	5	1	1
Springfield,	44,164	13	7	6	1	5	1	..
New Bedford,	40,705	19	7	7	1	5	2	..
Somerville,	40,117	..	..	..	..	..	..	..
Holyoke,	35,528	..	..	..	..	..	..	..
Salem,	30,735	7	4	2	1	1	..	..
Chelsea,	27,850	10	3	1	3	1	..	..
Haverhill,	27,322	12	3	3	1	1	..	2
Brockton,	27,278	..	..	..	..	..	..	..
Taunton,	25,389	9	3	2	1	2	..	..
Newton,	24,375	4	1	1	..	..	..	..
Malden,	22,984	9	6	2	1	2	..	..
Fitchburg,	22,007	9	1	2	2	1	1	..
Gloucester,	21,262	12	3	..	2	..	..	..
Waltham,	18,522	5	0	..	..	..	..	..
Pittsfield,	17,252	5	4	1	1	1	..	..
Quincy,	16,711	9	5	..	1	..	..	..
North Adams,	16,067	..	..	..	..	..	..	..
Northampton,	14,961	..	..	..	..	..	..	..
Chicopee,	14,007	..	..	..	..	..	..	..
Newburyport,	13,914	7	2	1	..	1	..	..
Marlborough,	13,788	..	..	..	..	..	..	..
Woburn,	13,491	..	..	..	..	..	..	..
Brookline,	12,076	..	..	..	..	..	..	..
Medford,	11,052	..	..	..	..	..	..	..
Everett,	11,040	..	..	..	..	..	..	..
Weymouth,	10,843	..	..	..	..	..	..	..
Beverly,	10,795	..	..	..	..	..	..	..
Clinton,	10,379	..	..	..	..	..	..	..
Hyde Park,	10,200	..	..	..	..	..	..	..
Peabody,	10,123	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,206,271	482	216	115	60	84	19	5

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 21 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

One hundred and fifteen deaths were reported from the principal infectious diseases: diarrhœal diseases, 84; typhoid fever, 19; diphtheria and croup, 5; malarial fever, 2; whooping-cough, 2; puerperal fever, cerebro-spinal meningitis and scarlet-fever, 1 each.

No deaths were reported from small-pox, measles, and erysipelas.

There were 60 deaths reported from consumption; acute lung diseases, 19; and still-births, 25.

From malarial feverBoston and Newton, 1 each. From whooping-cough, Fall River and Salem, 1 each. From puerperal fever, Boston, 1. From cerebro-spinal meningitis, Boston, 1. From scarlet-fever, Boston, 1.

Deaths from the principal infectious diseases numbered 115 against 134 for the preceding week.

Deaths under five years of age numbered 216 against 231 for the preceding week.

Cases reported in Boston: typhoid fever, 58; scarlet-fever, 7; diphtheria, 5; and measles, 4.

The death-rates for the week were: Boston, 19.68; Worcester, 12.91; Lowell, 30.82; Fall River, 27.27; Cambridge, 25.31; Lynn, 16.81; Lawrence, 29.17; Springfield, 15.30; New Bedford, 24.27; Somerville, ——; Holyoke, ——; Salem, 11.84; Chelsea, 18.67; Haverhill, 22.84; Brockton, ——; Taunton, 18.43; Newton, 8.56; Malden, 20.35; Fitchburg, 21.27; Gloucester, 29.34; Waltham, 14.03; Quincy, 27.99; Northampton, ——; Newburyport, 26.16; Woburn, ——.

The total death-rate for the week was 20.78 against 21.36 and 22.14 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.			VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Sept. 20, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.		MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 14,	30.13	67.0	71.0	63.0	60	85		73.0	S. W.	E.	20	4		F.	O.			0.01
Monday, 15,	30.12	65.0	68.0	61.0	95	100		98.0	E.	S.	6	5		O.	O.			0.12
Tuesday, 16,	29.98	68.0	73.0	65.0	98	90		94.0	S.	S.	4	7		O.	O.			1.25
Wednes'y, 17,	29.78	65.0	67.0	63.0	95	97		96.0	N. E.	N.	9	17		O.	R.			0.13
Thursday, 18,	29.92	67.0	74.0	60.0	81	62		71.0	W.	N. W.	13	6		O.	C.			0.05
Friday, 19,	30.09	61.0	77.0	55.0	72	78		75.0	W.	S. W.	2	11		C.	C.			0.00
Saturday, 20,	30.03	67.0	74.0	60.0	83	68		75.0	S. W.	W.	20	14		O.	C.			0.00
Week, - -	30.00		72.0	61.0				83.0										

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Sept. 27, 1890,

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Sept. 27, 1890.

Deaths reported to the State Board of Health in 22 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	446,507	165	70	42	22	24	9	7
Worcester,	84,530	25	14	7	4	5	1	..
Lowell,	77,605	31	19	14	4	10	1	1
Fall River,	74,351	32	23	11	2	9	1	1
Cambridge,	69,837	18	4	1	2	1	..	..
Lynn,	55,684	15	7	3	2	2	..	..
Lawrence,	44,559	18	8	4	3	4	..	..
Springfield,	44,164	14	5	4	4	2	..	..
New Bedford,	40,705	14	8	2	2	2	..	..
Somerville,	40,117	..	..	..	..	..	..	..
Holyoke,	35,528	..	..	..	..	..	..	..
Salem,	30,735	19	8	3	5	..	..	2
Chelsea,	27,850	9	3	2	1	2	..	..
Haverhill,	27,322	9	2	4	..	2	1	1
Brockton,	27,278	..	..	..	..	..	..	..
Taunton,	25,389	12	3	2	2	1	..	..
Newton,	24,375	8	2	1	1	..	1	..
Malden,	22,984	7	4	1	1	..	1	..
Fitchburg,	22,007	7	1	..	1	..	..	..
Gloucester,	21,262	9	5	..	1	..	..	..
Waltham,	18,522	5	2	1	..	1	..	..
Pittsfield,	17,252	5	2	1	..	1	..	..
Quincy,	16,711	8	3	3	..	..	..	..
North Adams,	16,067	..	..	..	..	..	..	..
Northampton,	14,961	..	..	..	..	..	..	..
Chicopee,	14,007	..	..	..	..	..	..	..
Newburyport,	13,914	4	0	1	2	..	..	1
Marlborough,	13,788	..	..	..	..	..	..	..
Woburn,	13,491	..	..	..	..	..	..	..
Brookline,	12,076	..	..	..	..	..	..	..
Medford,	11,052	..	..	..	..	..	..	..
Everett,	11,040	..	..	..	..	..	..	..
Weymouth,	10,843	..	..	..	..	..	..	..
Beverly,	10,795	..	..	..	..	..	..	..
Clinton,	10,379	..	..	..	..	..	..	..
Hyde Park,	10,200	..	..	..	..	..	..	..
Peabody,	10,123	5	2	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,216,373	439	195	107	62	66	15	13

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 22 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

One hundred and seven deaths were reported from the principal infectious diseases: diarrhœal diseases, 66; typhoid fever, 15; diphtheria and croup, 13; whooping-cough, 6; scarlet-fever, 4; measles, 2; cerebro-spinal meningitis, 1.

No deaths were reported from small-pox, malarial fever and puerperal fever.

There were 62 deaths from consumption; acute lung diseases, 12; and still-births, 20.

From whooping-cough, Boston, Lowell, Salem and Taunton, 1 each; Quincy, 2. From scarlet-fever, Boston, Worcester, Lowell and Lynn, 1 each. From measles, Springfield, 2. From cerebro-spinal meningitis, Quincy, 1.

Deaths from the principal infectious diseases numbered 107 against 115 for the preceding week.

Deaths under five years of age numbered 195 against 216 for the preceding week.

Cases reported in Boston: typhoid fever, 48; diphtheria, 18; scarlet-fever, 6; and measles, 3.

The death-rates for the week were: Boston, 18.22; Worcester, 15.37; Lowell, 20.77; Fall River, 22.38; Cambridge, 13.40; Lynn, 14.01; Lawrence, 21.00; Springfield, 16.48; New Bedford, 17.88; Somerville, ——; Holyoke, ——; Salem, 32.13; Chelsea, 16.80; Haverhill, 17.12; Brockton, ——; Taunton, 24.57; Newton, 17.12; Malden, 15.83; Fitchburg, 16.54; Gloucester, 22.00; Waltham, 14.03; Quincy, 24.88; Northampton, ——; Newburyport, 14.92; Woburn, ——.

The total death-rate for the week was 18.76 against 20.78 and 21.36 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.			VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Sept. 27, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 21,	30.16	58.0	65.0	50.0	67	74	70.0	N. W.	S. E.		14	9		C.	C.			0.00
Monday, 22,	30.02	56.0	67.0	45.0	81	81	81.0	W.	S. W.		6	10		O.	C.			0.00
Tuesday, 23,	29.88	59.0	73.0	64.0	73	58	65.0	W.	N. W.		14	14		C.	C.			0.00
Wednes'y, 24,	30.18	54.0	59.0	49.0	57	55	56.0	N. W.	N. W.		20	8		C.	C.			0.00
Thursday, 25,	30.27	51.0	63.0	40.0	59	61	60.0	N. W.	S. W.		4	3		C.	H.			0.00
Friday, 26,	30.03	54.0	67.0	58.0	80	94	87.0	S. W.	S.		9	9		O.	R.			0.12
Saturday, 27,	30.02	64.0	70.0	58.0	92	72	82.0	W.	N. W.		6	13		O.	C.			0.08
Week, - -	30.08		66.0	52.0			71.0											

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Oct. 4, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Oct. 4, 1890.

Deaths reported to the State Board of Health in 22 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	446,507	166	56	25	23	12	6	6
Worcester,	84,530	16	5	5	1	2	1	1
Lowell,	77,605	30	13	6	6	4	..	2
Fall River,	74,351	31	14	12	5	6	4	2
Cambridge,	69,837	17	6	3	2	3	..	..
Lynn,	55,684	11	5	4	..	2	1	1
Lawrence,	44,559	20	7	4	2	2	..	2
Springfield,	44,164	9	4	2	4	1	..	1
New Bedford,	40,705	9	2	2	..	2	..	..
Somerville,	40,117	..	..	..	..	..	..	..
Holyoke,	35,528	..	..	..	..	..	..	..
Salem,	30,735	13	7	2	..	1	1	..
Chelsea,	27,850	5	3	..	2	..	..	..
Haverhill,	27,322	20	13	7	2	6	1	..
Brockton,	27,278	..	..	..	..	..	..	..
Taunton,	25,389	9	0	2	..	1	..	..
Newton,	24,375	4	2	1	..	1	..	..
Malden,	22,984	7	2	1	3	..	..	1
Fitchburg,	22,007	9	5	1	..	1	..	..
Gloucester,	21,262	5	0	..	..	..	..	..
Waltham,	18,522	5	3	2	..	2	..	..
Pittsfield,	17,252	2	0	1	1	..	1	..
Quincy,	16,711	2	2	1	..	..	1	..
North Adams,	16,067	..	..	..	..	..	..	..
Northampton,	14,961	..	..	..	..	..	..	..
Chicopee,	14,007	..	..	..	..	..	..	..
Newburyport,	13,914	5	0	..	2	..	..	..
Marlborough,	13,788	..	..	..	..	..	..	..
Woburn,	13,491	..	..	..	..	..	..	..
Brookline,	12,076	..	..	..	..	..	..	..
Medford,	11,052	..	..	..	..	..	..	..
Everett,	11,040	..	..	..	..	..	..	..
Weymouth,	10,843	..	..	..	..	..	..	..
Beverly,	10,795	..	..	..	..	..	..	..
Clinton,	10,379	..	..	..	..	..	..	..
Hyde Park,	10,200	..	..	..	..	..	..	..
Peabody,	10,123	3	2	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,216,376	398	151	81	53	46	16	16

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 22 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Eighty-one deaths were reported from the principal infectious diseases: diarrhœal diseases, 46; typhoid fever, 16; diphtheria and croup, 16; cerebro-spinal meningitis, 2; whooping-cough, 1.

No deaths were reported from small-pox, malarial fevers, measles and puerperal fever.

There were 53 deaths from consumption; acute lung diseases, 18; and still-births, 21.

From cerebro-spinal meningitis, Worcester and Taunton, 1 each. From whooping-cough, Boston, 1.

Deaths from the principal infectious diseases numbered 81 against 107 for the preceding week.

Deaths under five years of age numbered 151 against 195 for the preceding week.

Cases reported in Boston: typhoid fever, 44; diphtheria, 26; measles, 5; and scarlet-fever, 4.

The death-rates for the week were: Boston, 19.33; Worcester, 9.84; Lowell, 20.10; Fall River, 21.68; Cambridge, 12.65; Lynn, 10.27; Lawrence, 23.34; Springfield, 10.59; New Bedford, 11.49; Somerville, ——; Holyoke, ——; Salem, 22.98; Chelsea, 9.33; Haverhill, 38.06; Brockton, ——; Taunton, 18.43; Newton, 8.56; Malden, 15.83; Fitchburg, 21.27; Gloucester, 12.22; Waltham, 14.03; Quincy, 6.22; Northampton, ——; Newburyport, 18.65; Woburn, ——.

The total death-rate for the week was 17.01 against 18.76 and 20.78 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.			VELOCITY OF WIND.		STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Oct. 4, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sept. 28, Sunday,	30.31	50.0	55.0	46.0	71	81	76.0	N.	N. E.	8	11	O.	C.			0.00
29, Monday,	30.38	51.0	57.0	46.0	81	69	75.0	N.	E.	16	4	C.	C.			0.00
30, Tuesday,	30.20	59.0	73.0	44.0	74	70	72.0	N.	W.	11	7	C.	C.			0.00
Oct. 1, Wednes'y,	30.30	60.0	65.0	56.0	57	78	67.0	N.	S. E.	4	12	C.	C.			0.00
2, Thursday,	30.28	66.0	77.0	54.0	53	62	57.0	S. W.	S. W.	6	10	F.	C.			0.00
3, Friday,	30.10	62.0	70.0	57.0	77	97	87.0	S. W.	S. E.	4	7	O.	O.			0.24
4, Saturday,	29.78	64.0	68.0	59.0	97	97	97.0	N.	S. W.	6	11	R.	O.			0.82
Week, - -	30.19		66.0	52.0			76.0									

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In the 17 smaller towns of Massachusetts, as reported to the State Board of Health for the month of September.

The total death-rate of reporting towns for the month was 14.95.

TOWNS.	Estimated Population.	Reported Deaths in each.	Deaths under five years of age.	Deaths from				
				Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Plymouth,	7,319	..	..	..	..	..	..	..
Wakefield,	6,959	..	..	..	..	..	..	..
Stoneham,	6,158	9	0	..	2	..	..	..
Marlborough,	6,014	10	5	4	1	4	..	..
Revere,	5,652	..	..	..	..	..	..	..
Andover,	5,560	..	..	..	..	..	..	..
Arlington,	5,528	..	..	..	..	..	..	..
Winchester,	4,847	..	..	..	..	..	..	..
Braintree,	4,845	..	..	..	..	..	..	..
Hudson,	4,673	5	1	..	1	..	..	..
Provincetown,	4,642	..	..	..	..	..	..	..
Northbridge,	4,595	..	..	..	..	..	..	..
Hingham,	4,558	11	3	1	..	1	..	..
Amherst,	4,474	..	..	..	..	..	..	..
Concord,	4,435	3	2	2	..	1	1	..
Whitman,	4,400	..	..	..	..	..	..	..
Randolph,	3,963	2	1	1	..	..	..	1
North Andover,	3,838	..	..	..	..	..	..	..
Nantucket,	3,263	..	..	..	..	..	..	..
Swampscott,	3,185	3	1	..	..	..	..	..
Leicester,	3,114	..	..	..	..	..	..	..
Fairhaven,	2,906	..	..	..	..	..	..	..
Dalton,	2,873	0	0	..	..	..	..	..
Chelmsford,	2,693	..	..	..	..	..	..	..
Merrimac,	2,629	3	1	1	..	1	..	..
Wrentham,	2,566	..	..	..	..	..	..	..
Cohasset,	2,452	5	1	..	..	..	..	..
Longmeadow,	2,178	..	..	..	..	..	..	..
Ashburnham,	2,076	..	..	..	..	..	..	..
Groton,	2,071	2	0	..	..	..	..	..
Northborough,	1,947	..	..	..	..	..	..	..
Conway,	1,454	..	..	..	..	..	..	..
Shrewsbury,	1,438	1	0	..	..	..	..	..
Huntington,	1,378	..	..	..	..	..	..	..
Topsfield,	1,013	..	..	..	..	..	..	..
Truro,	918	3	1	..	..	..	..	..
Bolton,	835	..	..	..	..	..	..	..
Burlington,	616	1	0	..	..	..	..	..
Wendell,	505	1	0	..	..	..	..	..
Heath,	502	..	..	..	..	..	..	..
Agawam,	2,344	1	0	..	..	..	..	..
Norton,	1,728	3	1	..	..	..	..	..
Total of reporting towns,	50,560	63	17	9	4	7	1	1

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Oct. 11, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Oct. 11, 1890.

Deaths reported to the State Board of Health in 21 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	446,507	153	50	15	22	7	2	4
Worcester,	84,530	16	3	3	5	1	1	1
Lowell,	77,605	33	18	7	2	5	1	1
Fall River,	74,351	33	13	12	4	6	2	3
Cambridge,	69,837	17	7	3	5	3	..	..
Lynn,	55,684	18	8	5	1	2	..	2
Lawrence,	44,559	26	10	6	1	1	..	4
Springfield,	44,164	14	5	5	1	3	..	..
New Bedford,	40,705	7	2	2	..	2	..	..
Somerville,	40,117	..	..	..	..	..	..	..
Holyoke,	35,528	..	..	..	..	..	..	..
Salem,	30,735	21	12	5	1	4	..	1
Chelsea,	27,850	10	6	1	2	1	..	..
Haverhill,	27,322	9	6	2	1	..	..	2
Brockton,	27,278	..	..	..	..	..	..	..
Taunton,	25,389	7	1	..	2	..	..	..
Newton,	24,375	4	1	1	1	1	..	..
Malden,	22,984	6	1	..	1	..	..	..
Fitchburg,	22,007	9	4	1	..	1	..	..
Gloucester,	21,262	..	..	..	..	..	..	..
Waltham,	18,522	2	0	..	1	..	..	..
Pittsfield,	17,252	6	1	..	..	..	..	..
Quincy,	16,711	4	0	..	1	..	..	..
North Adams,	16,067	..	..	..	..	..	..	..
Northampton,	14,961	..	..	..	..	..	..	..
Chicopee,	14,007	..	..	..	..	..	..	..
Newburyport,	13,914	6	1	..	2	..	..	..
Marlborough,	13,788	..	..	..	..	..	..	..
Woburn,	13,491	..	..	..	..	..	..	..
Brookline,	12,076	..	..	..	..	..	..	..
Medford,	11,052	..	..	..	..	..	..	..
Everett,	11,040	..	..	..	..	..	..	..
Weymouth,	10,843	..	..	..	..	..	..	..
Beverly,	10,795	..	..	..	..	..	..	..
Clinton,	10,379	..	..	..	..	..	..	..
Hyde Park,	10,200	..	..	..	..	..	..	..
Peabody,	10,123	1	0	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,195,114	402	149	68	53	37	6	18

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 21 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Sixty-eight deaths were reported from the principal infectious diseases: diarrhœal diseases, 37; diphtheria and croup, 18; typhoid fever, 6; cerebro-spinal meningitis, 2; malarial fever, 2; scarlet-fever, erysipelas and puerperal fever each 1.

No deaths were reported from small-pox and measles.

There were 53 deaths from consumption; acute lung diseases, 27; and still-births, 26.

From cerebro-spinal meningitis, Boston and Lynn, 1 each. From malarial fever, Fall River and Springfield, 1 each. From scarlet-fever, Lawrence, 1. From erysipelas, Boston 1. From puerperal, Springfield, 1.

Deaths from the principal infectious diseases numbered 68 against 81 for the preceding week.

Deaths under five years of age numbered 149 against 151 for the preceding week.

Cases reported in Boston: typhoid fever, 49; diphtheria, 20; measles, 7; and scarlet-fever, 4.

The death-rates for the week were: Boston, 17.82; Worcester, 9.84; Lowell, 22.11; Fall River, 23.07; Cambridge, 12.65; Lynn, 16.81; Lawrence, 30.34; Springfield, 16.48; New Bedford, 8.94; Somerville, ——; Holyoke, ——; Salem, 35.51; Chelsea, 18.67; Haverhill, 17.12; Brockton, ——; Taunton, 14.33; Newton, 8.56; Malden, 13.57; Fitchburg, 21.27; Gloucester, ——; Waltham, 5.61; Quincy, 12.44; Northampton, ——; Newburyport, 22.38; Woburn, ——.

The total death-rate for the week was 17.48 against 17.01 and 18.76 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Oct. 11, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 5,	29.74	63.0	70.0	56.0	76	62	69.0	W.	N.	12	4	F.	C.		0.00
Monday, 6,	29.79	54.0	60.0	48.0	63	69	66.0	N. W.	E.	9	14	O.	C.		0.00
Tuesday, 7,	29.95	47.0	50.0	45.0	73	86	79.0	N. E.	E.	16	12	O.	Lt. R.		0.26
Wednes'y, 8,	30.07	50.0	53.0	47.0	93	80	87.0	N. W.	W.	7	7	Lt. R.	O.		0.15
Thursday, 9,	30.29	50.0	56.0	45.0	76	63	70.0	N. W.	N. W.	8	5	C.	O.		0.00
Friday, 10,	30.11	54.0	65.0	44.0	79	89	84.0	N. W.	S. W.	4	11	F.	R.		T
Saturday, 11,	29.88	58.0	63.0	54.0	77	76	76.0	N. W.	N. W.	10	11	O.	C.		0.04
Week, - -	29.97		59.0	48.0			76.0								

* O., Cloudy: C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Oct. 18, 1890.

AND

MONTHLY BULLETIN

OF

FOOD AND DRUG INSPECTION

For the Month of October.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Oct. 18, 1890.

Deaths reported to the State Board of Health in 23 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	446,507	177	47	22	27	8	8	4
Worcester,	84,536	14	5	3	..	2	1	..
Lowell,	77,605	24	9	4	1	4	..	..
Fall River,	74,351	29	12	9	1	4	1	3
Cambridge,	69,837	20	8	6	1	4	2	..
Lynn,	55,684	20	4	3	3	..	1	..
Lawrence,	44,559	23	13	8	1	4	3	..
Springfield,	44,164	14	6	4	1	1	..	..
New Bedford,	40,705	13	5	4	2	3	..	1
Somerville,	40,117	..	..	..	..	..	..	..
Holyoke,	35,528	..	..	..	..	..	..	..
Salem,	30,735	14	5	1	3	..	..	1
Chelsea,	27,850	7	0	..	1	..	..	..
Haverhill,	27,322	9	4	1	2	1	..	..
Brockton,	27,278	..	..	..	..	..	..	..
Taunton,	25,389	3	0	..	1	..	..	..
Newton,	24,357	8	2	..	..	..	..	..
Malden,	22,984	5	2	..	..	..	..	..
Fitchburg,	22,007	5	2	2	1	..	..	..
Gloucester,	21,262	3	1	..	..	..	..	..
Waltham,	18,522	4	1	1	..	..	..	1
Pittsfield,	17,252	2	1	1	..	..	..	1
Quincy,	16,711	6	3	3	1	1	1	..
North Adams,	16,067	..	..	..	..	..	..	..
Northampton,	14,961	..	..	..	..	..	..	..
Chicopee,	14,007	..	..	..	..	..	..	..
Newburyport,	13,914	5	3	3	..	1	1	1
Marlborough,	13,788	..	..	..	..	..	..	..
Woburn,	13,491	..	..	..	..	..	..	..
Brookline,	12,076	..	..	..	..	..	..	..
Medford,	11,052	..	..	..	..	..	..	..
Everett,	11,040	..	..	..	..	..	..	..
Weymouth,	10,843	..	..	..	..	..	..	..
Beverly,	10,795	..	..	..	..	..	..	..
Clinton,	10,379	2	0	2	..	1	1	..
Hyde Park,	10,200	..	..	..	..	..	..	..
Peabody,	10,123	4	0	..	1	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,266,755	411	133	77	47	34	19	12

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 23 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Seventy-seven deaths were reported from the principal infectious diseases: diarrhœal diseases, 34; typhoid fever, 19; diphtheria and croup, 12; whooping-cough, 6; erysipelas and scarlet-fever each 2; puerperal fever and cerebro-spinal meningitis each 1.

No deaths were reported from small-pox, measles and malarial fever.

There were 47 deaths from consumption; acute lung diseases, 33; and still-births, 18.

From whooping-cough, Springfield, 2, Boston, Lawrence, Fitchburg and Quincy, 1 each. From erysipelas, Boston and Fall River, 1 each. From scarlet-fever, Lynn and Fitchburg, 1 each. From puerperal fever, Springfield, 1. From cerebro-spinal meningitis, Lynn, 1.

Deaths from the principal infectious diseases numbered 77 against 68 for the preceding week.

Deaths under five years of age numbered 133 against 149 for the preceding week.

Cases reported in Boston: typhoid fever, 38; diphtheria, 18; scarlet-fever, 15; and measles, 7.

The death-rates for the week were: Boston, 20.62; Worcester, 8.61; Lowell, 16.08; Fall River, 20.28; Cambridge, 14.89; Lynn, 18.65; Lawrence, 26.84; Springfield, 16.48; New Bedford, 16.60; Somerville, ——; Holyoke, ——; Salem, 23.67; Chelsea, 13.07; Haverhill, 17.12; Brockton, ——; Taunton, 6.14; Newton, 17.12; Malden, 11.31; Fitchburg, 11.82; Gloucester, 7.33; Waltham, 11.22; Quincy, 18.66; Northampton, ——; Newburyport, 18.65; Woburn, ——.

The total death-rate for the week was 17.42 against 17.48 and 17.01 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.			VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Oct. 18, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 12,	29.92	49.0	56.0	42.0	63	68	65.0	N. W.	N. W.	16	12	C.	C.		0.00
Monday, 13,	30.01	48.0	57.0	39.0	81	57	69.0	N. W.	S. W.	7	5	C.	C.		0.00
Tuesday, 14,	29.79	49.0	54.0	44.0	74	97	85.0	N.	S.	2	7	O.	R.		0.08
Wednes'y, 15,	29.92	54.0	62.0	47.0	77	72	75.0	W.	W.	11	10	C.	C.		0.21
Thursday, 16,	30.11	59.0	70.0	48.0	75	81	78.0	W.	S. W.	8	7	F.	O.		0.00
Friday, 17,	29.48	55.0	58.0	52.0	97	69	83.0	E.	N. W.	27	6	R.	O.		0.79
Saturday, 18,	29.92	54.0	61.0	48.0	72	84	78.0	W.	S. E.	13	7	C.	C.		0.01
Week, - -	29.88		59.0	46.0			76.0								

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of September: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	89	150	239	Maple Syrup, . .	..	..	..
Butter, . . .	12	4	16	Canned Goods, .	..	..	..
Cheese, . . .	4	..	4	Honey, . . .	2	2	4
Lard, . . .	5	1	6	Tea, . . .	9	1	10
Olive Oil, . . .	6	4	10	Coffee, . . .	2	..	2
Vinegar, . . .	7	7	14	Cocoa, . . .	..	..	..
Spices, . . .	120	12	132	Confectionery, .	1	..	1
Cream of Tartar, .	44	4	48	Other articles of Food and Drinks,	5	3	8
Molasses, . . .	21	2	23	Drugs, . . .	45	9	54
Syrups, . . .	..	1	1				
Maple Sugar, . .	..	..	..	Totals, . .	372	200	572

Percentage of adulteration, 34.9. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The quality of the milk obtained during the month was unusually poor, and was nearly as low as that of August; 62.8 per cent. of the samples obtained from dealers being below the standard. The percentage of other articles of food and of drugs which were not up to the required standard was only 15.

Eleven complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs, in each of which the defendant was found guilty in the lower court. One case, in which the defendant appealed, resulted in acquittal in the Superior court. Fines amounting to $381 were imposed. Three of these cases were for violation of the laws relating to milk, four of molasses, three of butter and one of cream of tartar.

The samples of drugs examined were Opium, Tinctures of Opium and Nux Vomica, Quinine, Chloroform, Iodoform, Ether, Citrate of Iron and Quinine, Spirits of Nitrous Ether, Compound Spirits of Ether, Alcohol, Port Wine, Solution of Citrate of Magnesia, Subcarbonate of Bismuth, Diluted Hydrobromic Acid, Benzoic Acid, Tannic Acid, Arrowroot, Lycopodium, Powdered Cinnamon, Cloves, Aloes, Musk, Olive Oil, Oil of Lemon, Syrup and Pepsin.

The adulterated samples were Tincture of Nux Vomica, Spirits of Nitrous Ether, Compound Spirits of Ether, Diluted Hydrobromic Acid, Musk, Olive Oil and Syrup.

The places from which samples were obtained were Boston, Cambridge, Lowell, Somerville, Springfield, Northampton, Salem, Worcester, Taunton, Fitchburg, Haverhill, Lawrence, Clinton, Marlborough, Lancaster, Westborough, Cottage City, Holliston, Brookline, Norwood, Boylston, Grafton, Lexington, Nantucket, Natick, Sterling, Wakefield and Weston.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Oct. 25, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Oct. 25, 1890.

Deaths reported to the State Board of Health in 24 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	POPULATION.	Reported Deaths in Each.	Deaths under five years.	DEATHS FROM				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	446,507	163	45	19	20	10	4	4
Worcester,	84,536	24	10	2	2	1	1	..
Lowell,	77,605	25	8	6	4	1	3	1
Fall River,	74,351	33	19	13	3	8	3	2
Cambridge,	69,837	16	7	3	1	1	1	1
Lynn,	55,684	14	5	3	2	2	..	1
Lawrence,	44,559	19	7	3	..	..	1	2
Springfield,	44,164	11	3	2	2	..	..	1
New Bedford,	40,705	4	1	2	..	..	1	..
Somerville,	40,117	..	..	..	..	..	..	..
Holyoke,	35,528	..	..	..	..	..	..	..
Salem,	30,735	5	2	..	1	..	..	..
Chelsea,	27,850	11	3	1	2	..	1	..
Haverhill,	27,322	14	7	3	2	1	..	1
Brockton,	27,278	..	..	..	..	..	..	..
Taunton,	25,389	5	0	..	..	..	..	..
Newton,	24,357	7	4	..	1	..	..	..
Malden,	22,984	5	1	..	..	..	..	..
Fitchburg,	22,007	4	1	1	..	..	..	1
Gloucester,	21,262	4	2	..	1	..	..	..
Waltham,	18,522	6	2	2	1	2	..	..
Pittsfield,	17,252	4	0	1	3	..	..	1
Quincy,	16,711	4	2	..	1	..	..	..
North Adams,	16,067	..	..	..	..	..	..	..
Northampton,	14,961	..	..	..	..	..	..	..
Chicopee,	14,007	..	..	..	..	..	..	..
Newburyport,	13,914	2	0	..	..	..	..	..
Marlborough,	13,768	2	0	..	..	..	..	..
Woburn,	13,491	..	..	..	..	..	..	..
Brookline,	12,076	1	0	..	..	..	..	..
Medford,	11,052	..	..	..	..	..	..	..
Everett,	11,040	..	..	..	..	..	..	..
Weymouth,	10,843	..	..	..	..	..	..	..
Beverly,	10,795	..	..	..	..	..	..	..
Clinton,	10,379	2	0	..	..	..	..	..
Hyde Park,	10,200	..	..	..	..	..	..	..
Peabody,	10,123	..	..	..	..	..	..	..

RECAPITULATION.

	POPULATION.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,242,496	385	129	61	46	26	15	15

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 24 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Sixty-one deaths were reported from the principal infectious diseases: diarrhœal diseases, 26; typhoid fever, 15; diphtheria and croup, 15; whooping-cough and scarlet-fever each 2; cerebro-spinal meningitis, 1.

No deaths were reported from small-pox, malarial fever and puerperal fever.

There were 46 deaths from consumption; acute lung diseases, 44; and still-births, 25.

From whooping-cough, Boston and New Bedford, 1 each. From scarlet-fever, Lowell and Springfield, 1 each. From cerebro-spinal meningitis, Haverhill, 1.

Deaths from the principal infectious diseases numbered 61 against 77 for the preceding week.

Deaths under five years of age numbered 129 against 133 for the preceding week.

Cases reported in Boston: typhoid fever, 36; measles, 18; diphtheria, 16 scarlet-fever, 6.

The death-rates for the week were: Boston, 18.98; Worcester, 14.76; Lowell, 16.75; Fall River, 23.07; Cambridge, 11.91; Lynn, 13.07; Lawrence, 22.17; Springfield, 12.95; New Bedford, 5.11; Somerville, ——; Salem, 8.46; Chelsea, 20.53; Haverhill, 26.64; Brockton, ——; Taunton, 10.24; Newton, 14.98; Malden, 10.31; Fitchburg, 9.45; Gloucester, 9.78; Waltham, 16.84; Quincy, 12.44; Northampton, ——; Newburyport, 7.46; Woburn, ——.

The total death-rate for the week was 16.11 against 17.42 and 17.48 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

Week ending Saturday, Oct. 25, 1890.	BAROMETER. MEAN.	THERMOMETER. MEAN.	THERMOMETER. MAXIMUM.	THERMOMETER. MINIMUM.	RELATIVE HUMIDITY. 8 A. M.	RELATIVE HUMIDITY. 8 P. M.	DIRECTION OF WIND. MEAN.	DIRECTION OF WIND. 8 A. M.	DIRECTION OF WIND. 8 P. M.	VELOCITY OF WIND. 8 A. M.	VELOCITY OF WIND. 8 P. M.	STATE OF WEATHER.* 8 A. M.	STATE OF WEATHER.* 8 P. M.	RAIN-FALL. HOURS DURATION.	RAIN-FALL. AMOUNT IN INCHES.
Sunday, 19,	29.66	53.0	56.0	50.0	94	90	92.0	E.	N. E.	16	48	O.	R.		0.52
Monday, 20,	29.71	43.0	46.0	41.0	92	82	87.0	N.	N.	14	12	R.	F.		0.67
Tuesday, 21,	30.10	44.0	48.0	44.0	70	79	74.0	N.	E.	14	3	O.	C.		T
Wednes'y, 22,	30.39	42.0	48.0	37.0	72	78	75.0	N.	E.	9	6	C.	C.		0.00
Thursday, 23,	30.28	43.0	49.0	38.0	84	79	82.0	N.	E.	6	24	O.	O.		0.00
Friday, 24,	29.82	47.0	49.0	45.0	86	100	93.0	N. E.	N. E.	42	34	R.	R.		1.10
Saturday, 25,	29.73	43.0	46.0	41.0	92	85	89.0	N.	N.	16	10	O.	O.		0.04
Week, - -	30.09		49.0	42.0			84.0								

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Nov. 1, 1890.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Nov. 1, 1890.

Deaths reported to the State Board of Health in 22 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	446,507	178	51	18	33	7	5	6
Worcester,	84,536	14	4	1	2	1	..	..
Lowell,	77,605	33	13	10	4	2	6	..
Fall River,	74,351	31	9	4	4	..	1	1
Cambridge,	69,837	14	1	1	4	..	1	..
Lynn,	55,684	19	3	2	2	..	..	1
Lawrence,	44,559	14	5	3	1	2	..	1
Springfield,	44,164	15	5	2	..	2	..	..
New Bedford,	40,705	14	3	..	2	..	..	..
Somerville,	40,117	..	..	..	..	..	..	..
Holyoke,	35,528	..	..	..	..	..	..	..
Salem,	30,735	11	5	3	1	..	..	2
Chelsea,	27,850	9	0	1	2	..	1	..
Haverhill,	27,322	8	3	..	1	..	..	..
Brockton,	27,278	..	..	..	..	..	..	..
Taunton,	25,389	2	0	..	2	..	..	..
Newton,	24,357	..	..	..	..	..	..	..
Malden,	22,984	6	1	..	..	..	..	..
Fitchburg,	22,007	7	3	1	2	..	..	1
Gloucester,	21,262	7	2	..	..	..	..	..
Waltham,	18,522	5	0	2	..	..	..	1
Pittsfield,	17,252	5	2	4	..	..	1	3
Quincy,	16,711	2	0	..	..	..	..	..
North Adams,	16,067	..	..	..	..	..	..	..
Northampton,	14,961	..	..	..	..	..	..	..
Chicopee,	14,007	..	..	..	..	..	..	..
Newburyport,	13,914	7	1	2	..	..	1	1
Marlborough,	13,788	..	..	..	..	..	..	..
Woburn,	13,491	..	..	..	..	..	..	..
Brookline,	12,076	..	..	..	..	..	..	..
Medford,	11,052	..	..	..	..	..	..	..
Everett,	11,040	..	..	..	..	..	..	..
Weymouth,	10,843	..	..	..	..	..	..	..
Beverly,	10,795	..	..	..	..	..	..	..
Clinton,	10,379	2	1	2	..	..	..	..
Hyde Park,	10,200	..	..	..	..	..	..	..
Peabody,	10,123	2	0	..	1	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,202,398	405	112	56	61	14	16	17

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 22 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty-six deaths were reported from the principal infectious diseases: diphtheria and croup, 17; typhoid fever, 16; diarrhœal diseases, 14; scarlet-fever, 4; whooping-cough, 2; malarial fever, erysipelas and measles, 1 each.

No deaths were reported from small-pox, cerebro-spinal meningitis and puerperal fever.

There were 61 deaths from consumption; acute lung diseases, 30; and still-births, 29.

From scarlet-fever, Clinton, 2; Fall River and Salem, 1 each. From whooping-cough, Lowell and Lynn, 1 each. From malarial fever, Fall River, 1. From erysipelas, Waltham, 1. From measles, Lowell, 1.

Deaths from the principal infectious diseases numbered 56 against 61 for the preceding week.

Deaths under five years of age numbered 112 against 129 for the preceding week.

Cases reported in Boston: measles, 30; diphtheria, 25 typhoid fever, 18; and scarlet-fever, 2.

The death-rates for the week were: Boston, 20.73; Worcester, 8.61; Lowell, 22.11; Fall River, 21.68; Cambridge, 10.42; Lynn, 17.74; Lawrence, 16.33; Springfield, 17.66; New Bedford, 17.88; Somerville, ——; Holyoke, ——; Salem, 18.60; Chelsea, 16.80; Haverhill, 15.22; Brockton, ——; Taunton, 4.09; Newton, ——; Malden, 13.57; Fitchburg, 16.54; Gloucester, 17.11; Waltham, 14.03; Quincy, 6.22; Northampton, ——; Newburyport, 26.11; Woburn, ——.

The total death-rate for the week was 17.51 against 16.11 and 17.42 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Nov. 1, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 26,	29.64	43.0	48.0	38.0	72	81	80.0	N.	N. E.	9	7	O.	O.		0.00
Monday, 27,	29.40	44.0	48.0	41.0	85	71	78.0	N.	N. W.	20	24	O.	O.		0.01
Tuesday, 28,	29.51	43.0	46.0	40.0	69	68	68.0	W.	S. W.	14	13	O.	C.		0.00
Wednes'y, 29,	29.48	44.0	49.0	39.0	88	96	92.0	S.	S.	8	4	O.	O.		0.17
Thursday, 30,	29.65	46.0	51.0	42.0	78	65	71.0	S. W.	S. W.	14	6	O.	F.		0.02
Friday, 31,	29.93	46.0	53.0	40.0	92	67	80.0	S. W.	W.	10	7	F.	C.		0.00
Saturday, Nov. 1,	29.94	42.0	50.0	35.0	79	67	73.0	W.	S. W.	11	14	C.	C.		0.00
Week, - -	30.05		49.0	39.0			77.0								

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In the 21 smaller towns of Massachusetts, as reported to the State Board of Health for the month of October.

The total death-rate of reporting towns for the month was 12.90.

TOWNS.	Estimated Population.	Reported Deaths in each.	Deaths under five years of age.	Deaths from				
				Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Hyde Park,	9,741	..	..	..	..	..	..	..
Marblehead,	8,200	5	0	..	1	..	..	..
Wakefield,	6,463	..	..	..	..	..	..	..
Andover,	6,127	4	0	1	..	..	..	1
Stoneham,	6,035	5	1	..	2	..	..	..
Winchester,	5,303	..	..	..	..	..	..	..
Middleborough,	5,233	2	1	1	..	1	..	..
Arlington,	5,066	..	..	..	..	..	..	..
West Springfield	4,868	..	..	..	..	..	..	..
Provincetown,	4,543	..	..	..	..	..	..	..
Concord,	4,457	8	0	1	1	..	1	..
Whitman,	4,429	..	..	..	..	..	..	..
Hingham,	4,375	7	1	..	1	..	..	..
Amherst,	4,337	..	..	..	..	..	..	..
Braintree,	4,188	..	..	..	..	..	..	..
Hudson,	4,185	3	0	..	1	..	..	..
Revere,	3,981	..	..	..	..	..	..	..
Randolph,	3,807	..	..	..	..	..	..	..
Northbridge,	3,786	..	..	..	..	..	..	..
North Andover,	3,680	..	..	..	..	..	..	..
Nantucket,	3,142	..	..	..	..	..	..	..
Mansfield,	3,094	..	..	..	..	..	..	..
Leicester,	3,003	..	..	..	..	..	..	..
Fairhaven,	2,937	..	..	..	..	..	..	..
Wrentham,	2,892	..	..	..	..	..	..	..
Swampscott,	2,670	4	0	1	2	..	1	..
Merrimac,	2,492	1	0	..	..	..	..	..
Dalton,	2,325	0	0	..	..	..	..	..
Agawam,	2,344	3	1	1	..	..	..	..
Cohasset,	2,226	5	1	2	..	2	..	..
Northborough,	2,163	..	..	..	..	..	..	..
Ashburnham,	2,058	..	..	..	..	..	..	..
Groton,	2,037	4	0	1	..	..	1	..
Longmeadow,	1,797	..	..	..	..	..	..	..
Conway,	1,573	2	0	..	..	..	..	..
Shrewsbury,	1,450	2	0	..	..	..	..	..
Huntington,	1,366	..	..	..	..	..	..	..
Topsfield,	1,141	3	1	1	..	..	..	..
Truro,	972	2	0	1	..	1	..	..
Russell,	882	2	0	..	..	..	..	..
Burlington,	604	1	0	..	..	..	..	..
Heath,	575	1	0	..	..	..	..	..
Wendell,	545	1	0	1	..	1	..	..
Total of reporting towns,	60,448	65	6	11	5	5	3	1

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Nov. 8, 1890,

AND

MONTHLY BULLETIN

OF

FOOD AND DRUG INSPECTION

For the Month of October.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Nov. 8, 1890.

Deaths reported to the State Board of Health in 22 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	446,507	174	47	16	23	4	6	4
Worcester,	84,536	17	9	1	2	1	..	..
Lowell,	77,605	24	7	8	1	1	5	1
Fall River,	74,351	30	14	9	2	5	3	1
Cambridge,	69,837	27	4	..	7	..	..	..
Lynn,	55,684	..	..	..	..	..	..	..
Lawrence,	44,559	11	2	3	2	..	1	2
Springfield,	44,164	10	5	2	1	..	..	1
New Bedford,	40,705	17	4	..	1	..	..	..
Somerville,	40,117	..	..	..	..	..	..	..
Holyoke,	35,528	..	..	..	..	..	..	..
Salem,	30,735	12	2	3	2	..	1	..
Chelsea,	27,850	..	..	..	..	..	..	..
Haverhill,	27,322	9	4	1	2	..	..	..
Brockton,	27,278	..	..	..	..	..	..	..
Taunton,	25,389	7	3	..	..	..	..	..
Newton,	24,357	12	..	2	..	..	2	..
Malden,	22,984	4	1	..	..	..	..	..
Fitchburg,	22,007	9	5	2	..	2	..	..
Gloucester,	21,262	6	1	3	..	..	1	..
Waltham,	18,522	4	0	..	..	..	..	..
Pittsfield,	17,252	4	1	1	..	..	..	1
Quincy,	16,711	4	1	..	1	..	..	..
North Adams,	16,067	..	..	..	..	..	..	..
Northampton,	14,961	..	..	..	..	..	..	..
Chicopee,	14,007	..	..	..	..	..	..	..
Newburyport,	13,914	2	1	1	..	..	..	1
Marlborough,	13,788	2	0	..	..	..	..	..
Woburn,	13,491	..	..	..	..	..	..	..
Brookline,	12,076	..	..	..	..	..	..	..
Medford,	11,052	..	..	..	..	..	..	..
Everett,	11,040	..	..	..	..	..	..	..
Weymouth,	10,843	..	..	..	..	..	..	..
Beverly,	10,795	..	..	..	..	..	..	..
Clinton,	10,379	2	0	..	..	..	..	..
Hyde Park,	10,200	3	1	..	..	..	..	..
Peabody,	10,123	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,159,086	390	112	52	44	13	19	11

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 22 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty-two deaths were reported from the principal infectious diseases: typhoid fever, 19; diarrhœal diseases, 13; diphtheria and croup, 11; cerebro-spinal meningitis, 3; scarlet-fever, 2; puerperal fever, malarial fever, erysipelas and whooping-cough, 1 each.

No deaths were reported from small-pox and measles.

There were 44 deaths from consumption; acute lung diseases, 33; and still-births, 33.

From cerebro-spinal meningitis, Salem, Haverhill and Gloucester, 1 each. From scarlet-fever, Lowell and Gloucester, 1 each. From puerperal fever, Boston, 1. From malarial fever, Springfield, 1. From erysipelas, Boston, 1. From whooping-cough, Salem, 1.

Deaths from the principal infectious diseases numbered 52 against 56 for the preceding week.

Deaths under five years of age numbered 112 the same as for the preceding week.

Cases reported in Boston: measles, 24; typhoid fever, 21; diphtheria, 14 and scarlet-fever, 8.

The death-rates for the week were: Boston, 20.27; Worcester, 10.45; Lowell, 16.08; Fall River, 20.98; Cambridge, 20.10; Lynn, ——; Lawrence, 12.83; Springfield, 11.77; New Bedford, 21.71; Somerville, ——; Holyoke, ——; Salem, 20.29; Chelsea, ——; Haverhill, 17.12; Brockton, ——; Taunton, 14.33; Newton, 25.68; Malden, 9.04; Fitchburg, 21.27; Gloucester, 14.67; Waltham, 11.22; Quincy, 12.44; Northampton, ——; Newburyport, 7.46; Woburn, ——.

The total death-rate for the week was 17.49 against 17.51 and 16.11 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Nov. 8, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 2,	29.79	49.0	55.0	42.0	76	84	80.0	S. W.	S. W.	11	12	O.	O.		T
Monday, 3,	29.61	47.0	51.0	42.0	70	70	70.0	S. W.	W.	9	12	C.	O.		0.00
Tuesday, 4,	29.92	39.0	45.0	31.0	71	69	70.0	N. W.	W.	8	5	C.	C.		0.00
Wednes'y, 5,	30.24	42.0	53.0	32.0	67	73	70.0	S. W.	S. W.	6	16	C.	C.		0.00
Thursday, 6,	30.24	54.0	64.0	44.0	83	90	86.0	S. W.	S. W.	12	3	C.	C.		0.00
Friday, 7,	30.25	51.0	57.0	45.0	93	94	93.0	N. W.	S.	6	10	O.	C.		0.00
Saturday, 8,	30.12	54.0	50.0	45.0	86	71	78.0	S. W.	N.	15	14	O.	C.		0.00
Week, - -	30.02		55.0	40.0			78.0								

* O., Cloudy: C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of October: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	134	107	241	Maple Syrup, . .	2	..	2
Butter, . . .	15	7	22	Canned Goods, .	1	2	3
Cheese, . . .	..	..	..	Honey, . . .	3	..	3
Lard, . . .	5	9	14	Tea, . . .	11	..	11
Olive Oil, . . .	..	7	7	Coffee, . . .	5	8	13
Vinegar, . . .	12	6	18	Cocoa, . . .	..	..	..
Spices, . . .	71	9	80	Confectionery, .	3	..	3
Cream of Tartar, .	30	16	46	Other articles of Food and Drinks,	3	1	4
Molasses, . . .	35	5	40	Drugs. . . .	21	5	26
Syrups, . . .	..	..	..				
Maple Sugar, . .	..	..	..	Totals, . . .	351	182	533

Percentage of adulteration, 34.1. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

Thirteen complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs. Of this number five were for violation of the Statutes relative to the sale of milk, two of butter, two of coffee, two of cream of tartar, one of molasses and one of pepper. Convictions were secured in eleven cases. Fines were imposed amounting to $390.

The samples of drugs examined were Tincture of Opium, Tincture of Nux Vomica, Quinine, Citrate of Iron and Quinine, Ether, Spirits of Nitrous Ether, Compound Spirits of Ether, Iodoform, Solution of Citrate of Magnesia, Syrup, Oil of Lemon, Extract of Licorice, Diluted Hydrobromic Acid, Tannic Acid, Ginger, Cloves and Aloes.

The adulterated samples were Diluted Hydrobromic Acid, Spirits of Nitrous Ether, Compound Spirits of Ether and Tincture of Nux Vomica.

Two samples of cosmetics were examined bearing the names of Madame A. Ruppert's World Renowned Face Bleach and Madame M. Yale's Excelsior Complexion Bleach each of which was found to consist of a very strong solution of *Corrosive Sublimate*, an irritant poison. Complaints were made against parties selling these articles.

The cities and towns visited by the inspectors of the Board during the month were Boston, Cambridge, Worcester, Lowell, Lawrence. Lynn, Salem, Haverhill, Somerville. Pittsfield, North Adams, Adams, Arlington, Waltham. Concord, Framingham, Hyde Park, Lexington. Northborough. Warren, Weston, Brookline, Ware, Berkley, Edgartown, Cottage City, Marlborough, Medford, Needham and Dedham.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Nov. 15, 1890,

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Nov. 15, 1890.

Deaths reported to the State Board of Health in 24 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	446,507	158	53	16	24	2	4	8
Worcester,	84,536	12	8	2	1	1	..	..
Lowell,	77,605	33	7	6	6	1	5	..
Fall River,	74,351	27	12	3	3	..	3	..
Cambridge,	69,837	24	9	2	7	1	..	..
Lynn,	55,684	24	6	3	3	1	..	..
Lawrence,	44,559	22	10	8	1	3	2	3
Springfield,	44,164	16	5	3	3	1	2	..
New Bedford,	40,705	11	1	..	..	..	..	..
Somerville,	40,117	..	..	..	..	..	..	..
Holyoke,	35,528	..	..	..	..	..	..	..
Salem,	30,735	14	3	2	..	..	1	..
Chelsea,	27,850	4	1	..	..	..	..	..
Haverhill,	27,322	8	3	1	..	..	..	1
Brockton,	27,278	..	..	..	..	..	..	..
Taunton,	25,389	4	1	..	1	..	..	..
Newton,	24,357	5	1	..	1	..	..	..
Malden,	22,984	6	2	..	2	..	..	..
Fitchburg,	22,007	5	0	..	1	..	..	..
Gloucester,	21,262	7	1	..	3	..	..	..
Waltham,	18,522	7	3	..	1	..	..	..
Pittsfield,	17,252	6	2	1	..	..	..	1
Quincy,	16,711	5	0	..	2	..	..	..
North Adams,	16,067	..	..	..	..	..	..	..
Northampton,	14,961	..	..	..	..	..	..	..
Chicopee,	14,007	..	..	..	..	..	..	..
Newburyport,	13,914	..	..	..	..	..	..	..
Marlborough,	13,788	..	..	..	..	..	..	..
Woburn,	13,491	..	..	..	..	..	..	..
Brookline,	12,076	1	0	..	1	..	..	..
Medford,	11,052	..	..	..	..	..	..	..
Everett,	11,040	..	..	..	..	..	..	..
Weymouth,	10,843	..	..	..	..	..	..	..
Beverly,	10,795	..	..	..	..	..	..	..
Clinton,	10,379	2	0	1	..	..	..	..
Hyde Park,	10,200	7	1	1	1	..	..	1
Peabody,	10,123	3	0	1	1	..	..	1

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,235,117	411	129	50	62	10	17	15

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 24 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty deaths were reported from the principal infectious diseases: typhoid fever, 17; diphtheria and croup, 15; diarrhœal diseases, 10; cerebro-spinal meningitis, 3; measles, 2; scarlet-fever, 2.

No deaths were reported from small-pox and malarial fever.

There were 62 deaths from consumption; acute lung diseases, 62; and still-births, 33.

From cerebro-spinal meningitis, Lynn, 2; Worcester, 1. From measles, Boston, 2. From scarlet-fever, Cambridge and Clinton, 1 each. From whooping-cough, Salem, 1.

Deaths from the principal infectious diseases numbered 50 against 52 for the preceding week.

Deaths under five years of age numbered 129 against 112 for the preceding week.

Cases reported in Boston: measles, 28; diphtheria, 26; typhoid fever, 24; and scarlet-fever, 6.

The death-rates for the week were: Boston, 18.40; Worcester, 7.78; Lowell, 22.11; Fall River, 17.78; Cambridge, 17.87; Lynn, 22.41; Lawrence, 25.67; Springfield, 18.83; New Bedford, 14.05; Somerville, ——; Holyoke, ——; Salem, 18.60; Chelsea, 7.46; Haverhill, 15.22; Brockton, ——; Taunton, 8.19; Newton, 10.70; Malden, 13.57; Fitchburg, 11.82; Gloucester, 17.11; Waltham, 19.64; Quincy, 15.55; Northampton, ——; Newburyport, ——; Woburn, ——.

The total death-rate for the week was 17.30 against 17.49 and 17.51 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND:		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL	
Week ending Saturday, Nov. 15, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 9,	30.18	51.0	57.0	38.0	75	94	84.0	S. E.	S. W.	13	18	O.	O.		0.00
Monday, 10,	30.16	50.0	59.0	42.0	78	80	79.0	W.	N. W.	18	12	O.	C.		Trace
Tuesday, 11,	30.35	35.0	38.0	32.0	81	100	91.0	N.	N. W.	6	12	O.	R.		0.11
Wednes'y, 12,	30.29	36.0	39.0	33.0	100	100	100.0	N. W.	N. W.	6	9	R.	O.		0.03
Thursday, 13,	30.13	41.0	53.0	30.0	85	68	76.0	W.	S. W.	6	6	C.	C.		0.00
Friday, 14,	30.15	49.0	58.0	39.0	77	66	71.0	S. W.	W.	10	10	C.	C.		0.00
Saturday, 15,	30.25	47.0	53.0	40.0	80	97	88.0	N. W.	S.	2	7	O.	R.		0.12
Week, - -	30.22		51.0	36.0			84.0								0.26

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Nov. 22, 1890,

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Nov. 22, 1890.

Deaths reported to the State Board of Health in 23 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Typhoid Fever.	Whooping Cough.	Diphtheria and Croup.
Boston,	446,507	171	43	10	37	2	1	5
Worcester,	84,536	21	6	2	6	..	1	1
Lowell,	77,605	31	5	12	3	9	..	..
Fall River,	74,351	21	7	2	4	1	..	1
Cambridge,	69,837	17	4	3	2	..	2	..
Lynn,	55,684	15	4	3	2	1	..	2
Lawrence,	44,559	23	7	4	5	3	..	..
Springfield,	44,164	11	1	1	1	..	..	..
New Bedford,	40,705	11	4	1	2	..	..	1
Somerville,	40,117	..	..	..	..	..	..	..
Holyoke,	35,528	..	..	..	..	..	..	..
Salem,	30,735	8	1	2	..	1	1	..
Chelsea,	27,850	12	2	..	..	..	..	..
Haverhill,	27,322	2	0	..	..	..	..	..
Brockton,	27,278	..	..	..	..	..	..	..
Taunton,	25,389	3	0	..	..	..	..	..
Newton,	24,357	..	..	..	..	..	..	..
Malden,	22,984	5	1	2	..	1	..	1
Fitchburg,	22,007	..	..	..	..	..	..	..
Gloucester,	21,262	6	2	..	..	..	..	..
Waltham,	18,522	8	1	..	1	..	..	..
Pittsfield,	17,252	3	1	..	1	..	..	..
Quincy,	16,711	4	2	1	2	1	..	..
North Adams,	16,067	..	..	..	..	..	..	..
Northampton,	14,961	..	..	..	..	..	..	..
Chicopee,	14,007	..	..	..	..	..	..	..
Newburyport,	13,914	6	2	3	..	..	..	3
Marlborough,	13,788	..	..	..	..	..	..	..
Woburn,	13,491	..	..	..	..	..	..	..
Brookline,	12,076	3	1	..	..	..	..	..
Medford,	11,052	..	..	..	..	..	..	..
Everett,	11,040	..	..	..	..	..	..	..
Weymouth,	10,843	..	..	..	..	..	..	..
Beverly.	10,795	..	..	..	..	..	..	..
Clinton,	10,379	4	1	2	..	..	..	..
Hyde Park,	10,200	5	0	..	1	..	..	..
Peabody,	10,123	1	0	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Typhoid Fever.	Whooping Cough.	Diphtheria and Croup.
Total of reporting towns,	1,202,667	391	95	47	67	19	5	14

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 23 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-seven deaths were reported from the principal infectious diseases: typhoid fever, 19; diphtheria and croup, 14; whooping-cough, 5; diarrhœal diseases, 4; measles, 2; cerebro-spinal meningitis, 2; puerperal fever, 2, erysipelas, 1.

No deaths were reported from small-pox and malarial fever.

There were 31 deaths from consumption; acute lung diseases, 67; and still-births, 28.

From diarrhœal diseases, Lowell, 2; Cambridge and Lawrence, 1 each. From measles, Lowell and Clinton, one each. From puerperal fever, Boston, 2. From cerebro-spinal meningitis, Gloucester and Clinton, 1 each. From erysipelas, Springfield, 1.

Deaths from the principal infectious diseases numbered 47 against 50 for the preceding week.

Deaths under five years of age numbered 95 against 129 for the preceding week.

Cases reported in Boston: typhoid fever, 21; measles, 19; diphtheria, 13; and scarlet-fever, 12.

The death-rates for the week were: Boston, 19.92; Worcester, 12.91: Lowell, 20.77; Fall River, 14.68; Cambridge, 12.65; Lynn, 14.01; Lawrence, 26.84; Springfield, 12.95; New Bedford, 14.05: Somerville, ——; Holyoke, ——; Salem, 13.53; Chelsea, 22.40; Haverhill, 3.80; Brockton, ——; Taunton, 6.14; Newton, ——; Malden, 11.31; Fitchburg, ——; Gloucester, 14.67; Waltham, 22.45; Quincy, 12.44; Northampton, ——; Newburyport, 22.38; Woburn, ——.

The total death-rate for the week was 16.90 against 17.30 and 17.49 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Nov. 22, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 16,	30.34	43.0	50.0	43.0	77	74	75.0	N. W.	S.	19	7	C.	C.		0.06
Monday, 17,	29.85	46.0	53.0	38.0	86	100	93.0	S. W.	S. W.	14	4	O.	O.		0.49
Tuesday, 18,	29.63	48.0	52.0	44.0	67	67	67.0	W.	N. W.	24	6	F.	C.		0.16
Wednes'y, 19,	29.68	45.0	51.0	39.0	79	78	78.0	S. W.	S. W.	12	14	O.	C.		0.00
Thursday, 20,	29.74	34.0	39.0	30.0	68	74	71.0	W.	N. W.	14	23	O.	F.		0.00
Friday, 21,	30.04	37.0	45.0	30.0	65	44	54.0	W.	W.	13	12	C.	F.		0.00
Saturday, 22,	29.84	42.0	49.0	35.0	70	72	71.0	W.	W.	12	14	O.	C.		T
Week, - -	29.87		49.0	37.0			73.0								0.71

* O., Cloudy: C., Clear; F.. Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening: N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Nov. 29, 1890,

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Nov. 29, 1890.

Deaths reported to the State Board of Health in 22 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	446,507	159	39	10	19	2	5	3
Worcester,	84,536	16	7	3	..	2	..	1
Lowell,	77,605	38	10	11	3	1	9	..
Fall River,	74,351	24	13	4	2	..	2	2
Cambridge,	69,837	14	6	2	5	..	1	1
Lynn,	55,684	18	8	1	1	..	..	..
Lawrence,	44,559	9	5	3	1	..	1	2
Springfield,	44,164	14	4	2	1	..	..	..
New Bedford,	40,705	16	9	2	..	1	..	1
Somerville,	40,117	..	..	..	..	..	..	..
Holyoke,	35,528	..	..	..	..	..	..	..
Salem,	30,735	11	2	1	2	..	1	..
Chelsea,	27,850	16	1	2	4	..	..	1
Haverhill,	27,322	..	..	..	..	..	..	..
Brockton,	27,278	..	..	..	..	..	..	..
Taunton,	25,389	7	4	..	1	..	..	..
Newton,	24,357	5	0	..	..	..	..	..
Malden,	22,984	2	0	..	..	..	..	..
Fitchburg,	22,007	9	3	2	1	..	..	1
Gloucester,	21,262	2	1	..	..	..	..	..
Waltham,	18,522	6	2	..	2	..	..	..
Pittsfield,	17,252	..	..	..	..	..	..	..
Quincy,	16,711	10	5	..	4	..	..	..
North Adams,	16,067	..	..	..	..	..	..	..
Northampton,	14,961	..	..	..	..	..	..	..
Chicopee,	14,007	..	..	..	..	..	..	..
Newburyport,	13,914	3	0	..	..	..	..	..
Marlborough,	13,788	..	..	..	..	..	..	..
Woburn,	13,491	..	..	..	..	..	..	..
Brookline,	12,076	2	0	..	..	..	..	..
Medford,	11,052	..	..	..	..	..	..	..
Everett,	11,040	..	..	..	..	..	..	..
Weymouth,	10,843	..	..	..	..	..	..	..
Beverly,	10,795	..	..	..	..	..	..	..
Clinton,	10,379	..	..	..	..	..	..	..
Hyde Park,	10,200	0	0	..	..	..	..	..
Peabody,	10,123	6	2	..	1	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,194,078	387	121	43	47	6	19	12

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 22 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-three deaths were reported from the principal infectious diseases: typhoid fever, 19; diphtheria and croup, 12; diarrhœal diseases, 6; cerebro-spinal meningitis, 2; measles, scarlet-fever, malarial fever and puerperal fever, one each.

No deaths were reported from small-pox, whooping-cough and erysipelas.

There were 45 deaths from consumption; acute lung diseases, 47; and still-births, 29.

From cerebro-spinal meningitis, Lynn and Chelsea, 1 each. From measles, Springfield, 1. From scarlet-fever, Lowell, 1. From malarial fever, Fitchburg, 1. From puerperal fever, Springfield, 1.

Deaths from the principal infectious diseases numbered 43 against 47 for the preceding week.

Deaths under five years of age numbered 121 against 95 for the preceding week.

Cases reported in Boston: typhoid fever, 21; measles, 26; diphtheria, 16; and scarlet-fever, 14.

The death-rates for the week were: Boston, 18.52; Worcester, 9.84; Lowell, 25.46; Fall River, 16.78; Cambridge, 10.40; Lynn, 16.81; Lawrence, 10.50; Springfield, 16.48; New Bedford, 20.44; Somerville, ——; Holyoke, ——; Salem, 18.60; Chelsea, 29.87; Haverhill, ——; Brockton, ——; Taunton, 14.33; Newton, 10.70; Malden, 4.52; Fitchburg, 21.27; Gloucester, 4.89; Waltham, 16.84; Quincy, 31.11; Northampton, ——; Newburyport, 11.19; Woburn, ——.

The total death-rate for the week was 16.84 against 16.90 and 17.30 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.			VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Nov. 29, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 23,	29.93	28.0	32.0	25.0	85	72	78.0	S. W.	N. W.		10	7		O.	C.			Trace
Monday, 24,	30.13	27.0	37.0	19.0	68	69	68.0	W.	W.		9	8		C.	O.			0.00
Tuesday, 25,	29.81	48.0	60.0	35.0	83	80	48.0	S. W.	S. W.		16	12		F.	O.			0.00
Wednes'y, 26,	30.09	35.0	40.0	30.0	69	63	66.0	W.	N. W.		18	9		H.	C.			0.00
Thursday, 27,	30.04	27.0	24.0	31.0	63	70	67.0	N. W.	N. W.		10	11		O.	F.			Trace
Friday, 28,	30.02	23.0	31.0	15.0	94	52	73.0	N. W.	N. W.		9	14		C.	C.			0.00
Saturday, 29,	29.91	33.0	45.0	21.0	68	68	68.0	W.	W.		10	11		O.	O.			0.00
Week, - -	29.99		38.0	25.0			67.0											0.00

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Dec. 6, 1890,

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Dec. 6, 1890.

Deaths reported to the State Board of Health in 24 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	446,507	186	49	21	26	2	4	9
Worcester,	84,536	25	6	3	6	1	..	2
Lowell,	77,605	32	..	2	8	2	..	..
Fall River,	74,351	26	10	4	4	1	1	2
Cambridge,	69,837	19	4	2	3	..	..	2
Lynn,	55,684	20	4	..	2	..	..	..
Lawrence,	44,559	15	4	3	1	..	1	1
Springfield,	44,164	19	7	1	2	..	..	..
New Bedford,	40,705	13	3	3	2	..	1	2
Somerville,	40,117	..	..	..	..	..	..	..
Holyoke,	35,528	..	..	..	..	..	..	..
Salem,	30,735	11	2	..	1	..	..	..
Chelsea,	27,850	11	..	2	..	..	1	..
Haverhill,	27,322	4	1	..	..	..	..	..
Brockton,	27,278	..	..	..	..	..	..	..
Taunton,	25,389	8	1	1	1	..	..	1
Newton,	24,375	7	3	..	1	..	..	..
Malden,	22,984	6	2	..	2	..	..	..
Fitchburg,	22,007	7	4	..	..	..	..	..
Gloucester,	21,262	4	1	1	1	..	..	1
Waltham,	18,522	3	0	..	1	..	..	..
Pittsfield,	17,252	..	..	..	..	..	..	..
Quincy,	16,711	4	1	1	1	..	1	..
North Adams,	16,067	..	..	..	..	..	..	..
Northampton,	14,961	..	..	..	..	..	..	..
Chicopee,	14,007	..	..	..	..	..	..	..
Newburyport,	13,914	8	3	1	1	..	..	1
Marlborough,	13,788	..	..	..	..	..	..	..
Woburn,	13,491	..	..	..	..	..	..	..
Brookline,	12,076	2	0	..	1	..	..	..
Medford,	11,052	..	..	..	..	..	..	..
Everett,	11,040	..	..	..	..	..	..	..
Weymouth,	10,843	..	..	..	..	..	..	..
Beverly,	10,795	..	..	..	..	..	..	..
Clinton,	10,379	3	2	3	..	..	1	..
Hyde Park,	10,200	2	1	..	1	..	..	..
Peabody,	10,123	1	0	..	1	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,231,797	436	108	48	66	6	10	21

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 24 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-eight deaths were reported from the principal infectious diseases: diphtheria and croup, 21; typhoid fever, 10; diarrhœal diseases, 6; scarlet-fever, 5; measles, 2; cerebro-spinal meningitis, 2; whooping-cough, 1; erysipelas, 1.

No deaths were reported from small-pox, malarial fever and puerperal fever.

There were 66 deaths from consumption; acute lung diseases, 44; and still-births, 33.

From scarlet-fever, Boston, 3; Clinton, 2. From measles, Boston and Lawrence, 1 each. From cerebro-spinal meningitis, Boston and Chelsea, 1 each From whooping-cough, Springfield, 1. From erysipelas, Boston, 1.

Deaths from the principal infectious diseases numbered 48 against 43 for the preceding week.

Deaths under five years of age numbered 108 against 121 for the preceding week.

Cases reported in Boston: measles, 40; diphtheria, 27; typhoid fever, 14; and scarlet-fever, 17.

The death-rates for the week were: Boston, 21.66; Worcester, 15.37; Lowell, 21.44; Fall River, 18.18; Cambridge, 14.14; Lynn, 18.68; Lawrence, 17.50; Springfield, 22.37; New Bedford, 16.60; Somerville, ——; Holyoke, ——; Salem, 18.60; Chelsea, 20.53; Haverhill, 7.61; Brockton, ——; Taunton, 16.38; Newton, 14.98; Malden, 13.57; Fitchburg, 16.54; Gloucester, 9.78; Waltham, 8.42; Quincy, 12.44; Northampton, ——; Newburyport, 29.84; Woburn, ——.

The total death-rate for the week was 18.40 against 16.84 and 16.90 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Dec. 6, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Nov 30, Sunday,	29.68	40.0	45.0	35.0	77	83	80.0	S. W.	W.	5	9	O.	O.		0.00
Dec. 1, Monday,	29.67	21.0	26.0	17.0	59	48	54.0	N. W.	N. W.	19	10	O.	C.		0.00
2, Tuesday,	30.17	13.0	22.0	5.0	79	72	75.0	N. W.	N.	10	12	C.	C.		0.00
3, Wednes'y,	30.06	20.0	40.0	−4.0	86	100	93.0	N. W.	N. W.	6	12	O.	R.		0.66
4, Thursday,	29.61	28.0	33.0	28.0	64	62	63.0	W.	W.	36	12	O.	C.		0.25
5, Friday,	30.30	32.0	36.0	28.0	65	100	82.0	S. W.	N.	8	7	O.	R.		0.01
6, Saturday,	30.17	30.0	37.0	23.0	100	95	97.0	N. W.	S. W.	8	5	N.	R.		0.01
Week, - -	29.98		34.0	19.0			77.0								0.93

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In the 23 smaller towns of Massachusetts, as reported to the State Board of Health for the month of November

The total death-rate of reporting towns for the month was 10.29.

TOWNS.	Estimated Population.	Reported Deaths in each.	Deaths under five years of age.	Deaths from				
				Infectious Diseases.	Consumption.	Acute Lung Diseases.	Typhoid Fever.	Diphtheria and Croup.
Danvers,	7,464	15	1	2	..	5	..	..
North Attleborough,	6,727	1	0	..	..	..	..	..
Stoneham,	6,158	3	1	..	1	..	..	..
Middleborough,	6,014	3	1	..	..	..	..	..
Hudson,	4,674	2	0	..	..	2	..	..
Great Barrington,	4,607	4	0	1	..	..	..	1
Hingham,	4,558	6	4	..	..	1	..	..
Concord,	4,435	2	0	..	..	..	..	..
Williamstown,	4,208	4	1	1	..	..	..	1
Easton,	4,076	8	1	3	1	1	..	3
Barnstable,	4,003	3	0	..	..	1	..	..
Randolph,	3,963	1	0	..	1	..	..	..
Dalton,	2,873	5	0	2	2	..	2	..
Merrimac,	2,629	1	0	..	..	..	..	..
Wrentham,	2,566	2	0	..	1	..	..	..
Cohasset,	2,452	1	0	..	..	..	..	..
Agawam	2,344	1	0	..	..	..	..	..
Groton,	2,071	1	0	..	..	..	..	..
Norton,	1,728	1	0	..	..	..	..	..
Truro,	918	1	0	..	..	..	..	..
Russell,	882	2	0	1	1	..	1	..
Burlington,	616	1	0	..	..	..	..	..
Wendell,	505	1	0	..	..	..	..	..
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		..	..	..	..	..	..	..
Total of reporting towns,	80,471	69	9	10	7	10	3	5

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Dec. 13, 1890,

AND

MONTHLY BULLETIN

OF

FOOD AND DRUG INSPECTION

For the Month of November.

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Dec. 13, 1890.

Deaths reported to the State Board of Health in 24 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	446,507	203	54	25	38	2	4	12
Worcester,	84,536	24	5	..	3	..	..	..
Lowell,	77,605	43	14	9	8	..	7	..
Fall River,	74,351	28	6	3	5	3	..	..
Cambridge,	69,837	21	4	1	4	..	..	1
Lynn,	55,684	17	4	1	2	..	..	1
Lawrence,	44,559	18	7	4	1	1	2	..
Springfield,	44,164	15	4	1	2	..	..	..
New Bedford,	40,705	5	0	..	..	..	..	..
Somerville,	40,117	..	..	..	..	..	..	..
Holyoke,	35,528	..	..	..	..	..	..	..
Salem,	30,735	6	0	..	4	..	..	..
Chelsea,	27,850	7	1	2	2	..	1	1
Haverhill,	27,322	6	1	1	..	..	..	..
Brockton,	27,278	..	..	..	..	..	..	..
Taunton,	25,389	12	3	2	2	1	..	..
Newton,	24,375	4	1	2	..	..	1	1
Malden,	22,984	4	1	1	..	..	..	..
Fitchburg,	22,007	3	2	..	..	..	..	..
Gloucester,	21,262	4	2	..	..	..	..	..
Waltham,	18,522	4	1	..	..	..	..	..
Pittsfield,	17,252	5	5	2	..	..	1	1
Quincy,	16,711	2	0	..	1	..	..	..
North Adams,	16,067	..	..	..	..	..	..	..
Northampton,	14,961	..	..	..	..	..	..	..
Chicopee,	14,007	..	..	..	..	..	..	..
Newburyport,	13,914	8	1	..	..	..	..	..
Marlborough,	13,788	..	..	..	..	..	..	..
Woburn,	13,491	..	..	..	..	..	..	..
Brookline,	12,076	..	..	..	..	..	..	..
Medford,	11,052	..	..	..	..	..	..	..
Everett,	11,040	..	..	..	..	..	..	..
Weymouth,	10,843	..	..	..	..	..	..	..
Beverly,	10,795	..	..	..	..	..	..	..
Clinton,	10,379	2	1	1	..	..	..	..
Hyde Park,	10,200	4	2	..	..	..	..	..
Peabody,	10,123	6	2	1	1	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,236,973	451	121	56	73	7	16	17

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 24 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty-six deaths were reported from the principal infectious diseases: diphtheria and croup, 17; typhoid fever, 16; diarrhœal diseases, 7; cerebro-spinal meningitis, 6; scarlet-fever, 4; measles, 2; erysipelas, 2; and puerperal fever, 2.

No deaths were reported from small-pox, malarial fever and whooping-cough.

There were 69 deaths from consumption; acute lung diseases, 73; and still-births, 20.

From cerebro-spinal meningitis, Boston, 2; Lowell, Lawrence, Taunton and Peabody, 1 each. From scarlet-fever, Boston, 2; Malden and Clinton, 1 each. From measles, Boston and Springfield, 1 each. From erysipelas, Lowell and Haverhill, 1 each. From puerperal fever, Boston, 2.

Deaths from the principal infectious diseases numbered 56 against 48 for the preceding week.

Deaths under five years of age numbered 121 against 108 for the preceding week.

Cases reported in Boston: measles, 35; diphtheria, 21; typhoid fever, 10; and scarlet-fever, 22.

The death-rates for the week were: Boston, 23.64; Worcester, 14.76; Lowell, 28.81; Fall River, 19.58; Cambridge, 15.63; Lynn, 15.87; Lawrence, 21.00; Springfield, 17.66; New Bedford, 6.38; Somerville, ——; Holyoke, ——; Salem, 10.15; Chelsea, 13.07; Haverhill, 11.41; Brockton, ——; Taunton, 24.57; Newton, 8.56; Malden, 9.04; Fitchburg, 7.05; Gloucester, 9.78; Waltham, 11.28; Quincy, 6.22; Northampton, ——; Newburyport, 29.84; Woburn, ——.

The total death-rate for the week was 18.96 against 18.40 and 16.84 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Dec. 13, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 7,	30.08	25.0	33.0	18.0	68	85	76.0	N. W.	N. W.	12	15	O.	C.		0.00
Monday, 8,	30.24	18.0	24.0	13.0	83	68	75.0	N. W.	N. W.	12	5	O.	O.		0.00
Tuesday, 9,	29.86	26.0	38.0	18.0	79	61	70.0	N. W.	W.	7	7	O.	C.		0.00
Wednes'y, 10,	29.58	32.0	39.0	25.0	78	73	75.0	W.	S. W.	7	10	O.	O.		0.00
Thursday, 11,	29.62	38.0	42.0	33.0	73	60	67.0	W.	S. W.	13	5	C.	O.		0.00
Friday, 12,	29.71	25.0	37.0	12.0	85	81	83.0	N. W.	N. W.	17	21	O.	C.		T
Saturday, 13,	30.19	14.0	25.0	4.0	77	62	69.0	N. W.	W.	12	12	C.	O.		0.00
Week, - -	29.89		34.0	17.0			75.0								0.00

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of November: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	193	94	287	Maple Syrup, . .	2	2	4
Butter, . . .	5	..	5	Canned Goods, .	..	..	..
Cheese, . . .	1	..	1	Honey, . . .	3	..	3
Lard, . . .	11	8	19	Tea, . . .	4	..	4
Olive Oil, . . .	3	1	4	Coffee, . . .	9	2	11
Vinegar, . . .	6	7	13	Cocoa, . . .	1	..	1
Spices, . . .	57	12	69	Confectionery, .	1	..	1
Cream of Tartar, .	33	4	37	Other articles of Food and Drinks,	10	5	15
Molasses, . . .	28	4	32	Drugs, . . .	34	16	50
Syrups, . . .	..	..	..				
Maple Sugar, . .	..	..	..	Totals, . .	401	155	556

Percentage of adulteration, 27.9. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The percentage of samples of milk obtained in November which were below the standard was much less than that of any previous month of the year except May and June, the legal standard of these months being but 12 per cent. of solids as compared with 13 per cent. during the remainder of the year.

Twenty-one complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs. Of these, four related to fraudulent sales of milk, two were of lard, six of cream-tartar, two of molasses, two of vinegar, two of pepper and one of coffee.

The two cases mentioned in the bulletin of the previous month, in which complaints had been entered against parties selling Madame Ruppert's Face Bleach and Madame Yale's Complexion Bleach, for violation of the act relative to the sale of poisons, were tried and the parties convicted.

The samples of drugs examined were Tincture of Opium, Tincture of Nux Vomica, Quinine, Citrate of Iron and Quinine, Honey, Syrup, Tannic and Benzoic Acids, Chloral, Iodoform, Olive Oil, Jalap, Solution of Citrate of Magnesia. Oil of Lemon, Red Wine, Alcohol, Spirits of Nitrous Ether, Compound Spirits of Ether, Powdered Ginger, Cloves, Glycerine, Saccharated Pepsin.

Eight samples of cosmetics were also examined.

The drugs found to be adulterated or below the standard were Spirits of Nitrous Ether, Jalap, Solution of Citrate of Magnesia and Olive Oil. The cosmetics already named as containing active poisons were made the subject of complaint on account of neglect to affix a proper label as required by the Poison Act.

The places visited in the course of inspection and collection of samples were Boston, Worcester, Taunton, Fall River, Springfield, Gloucester, Holyoke, Lowell, Haverhill, Lynn, Somerville, Cambridge, Newton, Marlboro, Northampton, Chicopee, Sudbury, Randolph, Brookline, Weston, Adams, North Adams and Plymouth.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Dec. 20, 1890,

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Dec. 20, 1890.

Deaths reported to the State Board of Health in 22 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	446,507	184	45	18	34	2	5	8
Worcester,	84,536	20	6	1	5	..	..	1
Lowell,	77,605	34	8	8	4	4	4	..
Fall River,	74,351	21	5	1	1	..	..	1
Cambridge,	69,837	24	7	1	4	1	..	..
Lynn,	55,684	..	..	..	..	..	..	..
Lawrence,	44,559	27	8	10	2	..	6	3
Springfield,	44,164	17	6	..	5	..	..	..
New Bedford,	40,705	18	5	1	..	..	..	1
Somerville,	40,117	..	..	..	..	..	..	..
Holyoke,	35,528	..	..	..	..	..	..	..
Salem.	30,735	11	3	1	2	1	..	..
Chelsea,	27,850	8	3	..	2	..	..	..
Haverhill,	27,322	5	2	1	1	..	..	1
Brockton,	27,278	..	..	..	..	..	..	..
Taunton,	25,389	13	5	..	4	..	..	..
Newton,	24,375	11	1	..	..	..	..	..
Malden,	22,984	8	1	1	2	..	..	1
Fitchburg,	22,007	5	0	..	1	..	..	..
Gloucester,	21,262	3	1	..	..	..	..	..
Waltham,	18,522	7	4	1	2	..	..	1
Pittsfield,	17,252	..	..	..	..	..	..	..
Quincy,	16,711	9	3	2	4	..	1	..
North Adams,	16,067	..	..	..	..	..	..	..
Northampton,	14,961	..	..	..	..	..	..	..
Chicopee,	14,007	..	..	..	..	..	..	..
Newburyport,	13,914	5	1	..	1	..	..	..
Marlborough,	13,788	..	..	..	..	..	..	..
Woburn,	13,491	..	..	..	..	..	..	..
Brookline,	12,076	..	..	..	..	..	..	..
Medford,	11,052	..	..	..	..	..	..	..
Everett,	11,040	..	..	..	..	..	..	..
Weymouth,	10,843	..	..	..	..	..	..	..
Beverly,	10,795	..	..	..	..	..	..	..
Clinton,	10,379	3	2	1	..	..	..	..
Hyde Park,	10,200	2	0	..	1	..	..	..
Peabody,	10,123	6	2	2	..	..	..	2

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns.	1,164,037	441	118	49	75	8	16	19

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 22 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-nine deaths were reported from the principal infectious diseases: diphtheria and croup, 19; typhoid fever, 16; diarrhœal diseases, 8; cerebro-spinal meningitis, erysipelas and puerperal fever, each 2.

No deaths were reported from small-pox, malarial fever, measles and whooping-cough.

There were 48 deaths from consumption; acute lung diseases, 75; and still-births, 30.

From cerebro-spinal meningitis, Lawrence and Clinton, 1 each. From erysipelas, Boston, 2. From puerperal fever, Boston and Quincy, 1 each.

Deaths from the principal infectious diseases numbered 49 against 56 for the preceding week.

Deaths under five years of age numbered 118 against 121 for the preceding week.

Cases reported in Boston: measles, 68; diphtheria, 30; scarlet-fever, 22; and typhoid fever, 12.

The death-rates for the week were: Boston, 21.43; Worcester, 12.30; Lowell, 22.78; Fall River, 14.68; Cambridge, 17.87; Lynn, ——; Lawrence, 31.50; Springfield, 20.01; New Bedford, 22.99; Somerville, ——; Holyoke, ——; Salem, 18.60; Chelsea, 14.93; Haverhill, 9.51; Brockton, ——; Taunton, 26.62; Newton, 23.54; Malden, 18.09; Fitchburg, 11.82; Gloucester, 7.33; Waltham, 19.64; Quincy, 27.99; Northampton, ——; Newburyport, 18.65; Woburn, ——.

The total death-rate for the week was 19.70 against 18.96 and 18.40 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.			VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Dec. 20, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 14,	30.01	34.0	45.0	24.0	59	51	55.0	S. W.	S. W.	24	12	O.	O.		0.00
Monday, 15,	30.28	35.0	40.0	30.0	61	73	67.0	W.	N. W.	14	15	C.	C.		0.00
Tuesday, 16,	30.51	25.0	29.0	17.0	94	88	91.0	N. W.	N.	12	12	O.	O.		0.00
Wednes'y, 17,	29.97	33.0	43.0	23.0	83	100	91.0	N. E.	N. E.	23	48	O.	R.		0.40
Thursday, 18,	29.50	36.0	40.0	32.0	100	75	88.0	N. W.	N. W.	10	30	R.	F.		0.91
Friday, 19,	30.14	17.0	21.0	13.0	63	71	67.0	N. W.	N. W.	21	21	C.	C.		0.00
Saturday, 20,	30.43	22.0	34.0	10.0	55	43	49.0	N. W.	S. W.	18	18	C.	C.		0.00
Week, - -	30.12		36.0	21.0			73.0								1.31

* O., Cloudy: C., Clear; F.. Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Return of Mortality

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Dec. 27, 1890,

PUBLISHED BY ORDER OF THE

STATE BOARD OF HEALTH.

MORTALITY OF MASSACHUSETTS

For the Week ending Dec. 27, 1890.

Deaths reported to the State Board of Health in 25 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Population.	Reported Deaths in Each.	Deaths under five years.	Deaths From				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	446,507	187	47	16	34	1	3	8
Worcester,	84,536	32	9	..	9	..	..	..
Lowell,	77,605	43	13	12	3	3	8	..
Fall River,	74,351	25	7	4	5	2	..	1
Cambridge,	69,837	18	4	2	3	1	1	..
Lynn,	55,684	11	4	2	1	..	..	1
Lawrence,	44,559	21	8	8	1	1	4	1
Springfield,	44,164	8	1	..	2	..	..	..
New Bedford,	40,705	13	3	1	..	..	..	..
Somerville,	40,117	..	..	..	..	..	..	..
Holyoke,	35,528	..	..	..	..	..	..	..
Salem,	30,735	12	6	2	..	..	1	1
Chelsea,	27,850	9	2	..	2	..	..	..
Haverhill,	27,322	6	2	..	4	..	..	..
Brockton,	27,278	..	..	..	..	..	..	..
Taunton,	25,389	6	2	..	..	..	..	..
Newton,	24,375	6	2	..	3	..	..	..
Malden,	22,984	7	1	..	1	..	..	..
Fitchburg,	22,007	9	3	..	1	..	..	..
Gloucester,	21,262	3	0	..	..	..	..	..
Waltham,	18,522	3	1	..	2	..	..	..
Pittsfield,	17,252	7	5	1	..	..	..	1
Quincy,	16,711	2	0	1	..	1	..	..
North Adams,	16,067	..	..	..	..	..	..	..
Northampton,	14,961	..	..	..	..	..	..	..
Chicopee,	14,007	..	..	..	..	..	..	..
Newburyport,	13,914	3	0	1	..	..	1	..
Marlborough,	13,788	..	..	..	..	..	..	..
Woburn,	13,491	..	..	..	..	..	..	..
Brookline,	12,076	4	2	..	1	..	..	..
Medford,	11,052	..	..	..	..	..	..	..
Everett,	11,040	..	..	..	..	..	..	..
Weymouth,	10,843	..	..	..	..	..	..	..
Beverly,	10,795	..	..	..	..	..	..	..
Clinton,	10,379	3	0	..	..	..	..	..
Hyde Park,	10,200	3	1	1	1	..	1	..
Peabody,	10,123	7	1	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,249,049	448	124	51	73	9	19	13

REPORTED DEATHS FROM PREVALENT DISEASES IN THE 25 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty-one deaths were reported from the principal infectious diseases: diphtheria and croup, 13; typhoid fever, 19; diarrhœal diseases, 9; erysipelas, 4; measles and scarlet-fever, 2 each; cerebro-spinal meningitis and malarial fever, each 1.

No deaths were reported from small-pox, puerperal fever and whooping-cough.

There were 60 deaths from consumption; acute lung diseases, 73; and still-births, 35.

From erysipelas, Boston, 3; New Bedford, 1. From measles, Lawrence, 2. From scarlet-fever, Fall River and Lynn, 1 each. From cerebro-spinal meningitis, Lowell, 1. From malarial fever, Boston, 1.

Deaths from the principal infectious diseases numbered 51 against 49 for the preceding week.

Deaths under five years of age numbered 124 against 118 for the preceding week.

Cases reported in Boston: measles, 56; diphtheria, 20; scarlet-fever, 32; and typhoid fever, 15.

The death-rates for the week were: Boston, 21.78; Worcester, 19.68; Lowell, 29.81; Fall River, 17.48; Cambridge, 13.40; Lynn, 10.27; Lawrence, 24.50; Springfield, 9.41; New Bedford, 16.60; Somerville, ——; Holyoke, ——; Salem, 20.29; Chelsea, 16.79; Haverhill, 11.41; Brockton, ——; Taunton, 12.28; Newton, 12.84; Malden, 15.83; Fitchburg, 21.27; Gloucester, 7.33; Waltham, 8.42; Quincy, 6.22; Northampton, ——; Newburyport, 10.29; Woburn, ——.

The total death-rate for the week was 18.73 against 19.70 and 18.96 for the previous two weeks.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.			VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Dec. 27, 1890.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 21,	29.97	33.0	46.0	19.0	53	66	60.0	S. W.	W.		24	18		F.	O.			0.02
Monday, 22,	29.96	38.0	43.0	33.0	79	71	75.0	W.	W.		12	12		C.	C.			Trace
Tuesday, 23,	29.76	41.0	52.0	31.0	63	68	65.0	W.	W.		20	19		C.	C.			0.00
Wednes'y, 24,	30.06	26.0	30.0	22.0	65	68	67.0	W.	W.		17	19		C.	C.			Trace
Thursday, 25,	30.50	16.0	20.0	12.0	73	63	68.0	N. W.	N. W.		9	15		C.	C.			0.00
Friday, 26,	30.23	19.0	32.0	6.0	90	100	95.0	N. W.	N. E.		10	39		S.	S.			0.80
Saturday, 27,	29.40	27.0	34.0	21.0	100	78	89.0	W.	W.		11	18		O.	C.			0.54
Week, - -	29.98		37.0	21.0			74.0											1.34

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.